

# FCC Test Report

**FCC ID** : 2AYRA-03749  
**Equipment** : AX4200 WiFi 6 Mesh Router  
**Model No.** : MX4200 V2  
(Refer to item 1.1.1 for more details)  
**Brand Name** : LINKSYS  
**Applicant** : Linksys USA, Inc.  
**Address** : 121 Theory, Irvine, CA 92617, USA  
**Standard** : 47 CFR FCC Part 15.407  
**Received Date** : Mar. 09, 2022  
**Tested Date** : Mar. 15 ~ Mar. 30, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:

  
\_\_\_\_\_  
Along Chen / Assistant Manager

  
\_\_\_\_\_  
Gary Chang / Manager

---

## Table of Contents

<b>1</b>	<b>GENERAL DESCRIPTION .....</b>	<b>5</b>
1.1	Information.....	5
1.2	Local Support Equipment List .....	11
1.3	Test Setup Chart .....	11
1.4	The Equipment List .....	12
1.5	Test Standards .....	13
1.6	Reference Guidance .....	13
1.7	Deviation from Test Standard and Measurement Procedure.....	13
1.8	Measurement Uncertainty .....	14
<b>2</b>	<b>TEST CONFIGURATION.....</b>	<b>15</b>
2.1	Testing Facility .....	15
2.2	The Worst Test Modes and Channel Details .....	16
<b>3</b>	<b>TRANSMITTER TEST RESULTS .....</b>	<b>17</b>
3.1	Emission Bandwidth .....	17
3.2	Conducted Output Power .....	18
3.3	Power Spectral Density .....	20
3.4	Unwanted Emissions.....	22
3.5	Frequency Stability.....	25
3.6	AC Power Line Conducted Emissions .....	26
<b>4</b>	<b>TEST LABORATORY INFORMATION .....</b>	<b>27</b>

**Appendix A. Emission Bandwidth**

**Appendix B. Conducted Output Power**

**Appendix C. Power Spectral Density**

**Appendix D. Unwanted Emissions**

**Appendix E. Frequency Stability**

**Appendix F. AC Power Line Conducted Emissions**

---

## Release Record

Report No.	Version	Description	Issued Date
FR230904AN	Rev. 01	Initial issue	May 11, 2022

## Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	AC Power Line Conducted Emissions	[dBuV]: 0.151MHz 47.68 (Margin -18.28dB) - QP	Pass
15.407(b) 15.209	Unwanted Emissions	[dBuV/m at 3m]: 5150.00MHz 53.84 (Margin -0.16dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	Conducted Output Power	Max Power [dBm]: <b>Non-beamforming mode</b> 5150~5250MHz: 27.22 5250~5350MHz: 23.77 5470~5725MHz: 23.71 5725~5850MHz: 29.84 <b>Beamforming mode</b> 5150~5250MHz: 24.01 5250~5350MHz: 20.76 5470~5725MHz: 17.69 5725~5850MHz: 23.82	Pass
15.407(a)	Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

# 1 General Description

## 1.1 Information

### 1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
LINKSYS	MX4200 V2	AX4200 WiFi 6 Mesh Router	For Marketing purpose
	MX4050 V2		
	MX4000 V2		
	MX4200C V2		
	SPNMX42		
<ul style="list-style-type: none"> <li>✦ All models are electrically identical, different model names are for marketing purpose.</li> <li>✦ The above models, model <b>MX4200 V2</b> was selected as a representative one for the final test and only its data was recorded in this report.</li> </ul>			

## 1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N <sub>TX</sub> )	Data Rate / MCS
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2 2 4 4	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2 2 4 4	MCS 0-15 MCS 0-15 MCS 0-31 MCS 0-31
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	2 2 4 4	MCS 0-15 MCS 0-15 MCS 0-31 MCS 0-31
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2 2 4 4	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	2 2 4 4	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	2 2 4 4	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	2 2 4 4	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	2 2 4 4	MCS 0-11
5150-5250 5250-5350 5470-5725 5725-5850	ax (HE80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	2 2 4 4	MCS 0-11

Note 1: BPSK, QPSK, 16QAM, 64QAM, 256QAM and 1024QAM modulation.  
Note 2: 802.11n/ac/ax supports beamforming function.  
Note 3 :TPC function is supported.

### 1.1.3 Antenna Details

Ant. No.	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
			2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	Dipole	UFL	2.45	4	4.07	--	--
2	Dipole	UFL	2.45	4	4.07	--	--
3	Monopole	UFL	--	--	--	5.01	5.13
4	Monopole	UFL	--	--	--	5.12	5.09
5	Monopole	UFL	--	--	--	5.2	5.65
6	Monopole	UFL	--	--	--	5.2	5.65

### 1.1.4 Power Supply Type of Equipment under Test (EUT)

<b>Power Supply Type</b>	12Vdc from AC adapter
--------------------------	-----------------------

### 1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: Ktec Model: KSA-36W-120300HU (US plug non-detachable) KSA-36W-120300D5 (US plug detachable) I/P: 100-240Vac, 50/60Hz, 1.0A O/P: 12.0V=3.0A 36.0W Power Line: DC 1.5m non-shielded without core
2	AC adapter	Brand: APD Model: WA-36N12FU (US plug non-detachable) WA-36N12R (US plug detachable) I/P: 100-240Vac, 50-60Hz, 0.9A Max O/P: 12.0V=3.0A 36.0W Power Line: DC 1.2m non-shielded without core
3	RJ45	1m non-shielded without core
4	RJ45	1.8m non-shielded without core

### 1.1.6 Channel List

802.11a / n HT20 / ac VHT20 / ax HE20		802.11n HT40 / ac VHT40 / ax HE40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	<b>802.11ac VHT80 / ax HE80</b>	
120	5600	42	5210
124	5620	58	5290
128	5640	106	5530
132	5660	122	5610
136	5680	138	5690
140	5700	155	5775
144	5720	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

### 1.1.7 Test Tool and Duty Cycle

Test Tool	QPSR, V5.0-00200		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11a	95.83%	0.18
	ax HE20	98.74%	0.06
	ax HE40	99.05%	0.04
	ax HE80	94.98%	0.22



### 1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5180	23.5
11a	5200	25
11a	5240	25.5
11a	5260	20.5
11a	5300	20
11a	5320	19.5
11a	5500	12
11a	5580	12.5
11a	5700	12.5
11a	5745	22.5
11a	5785	22.5
11a	5825	23.5
ax HE20	5180	23
ax HE20	5200	25
ax HE20	5240	25.5
ax HE20	5260	21
ax HE20	5300	20.5
ax HE20	5320	20
ax HE20	5500	12.5
ax HE20	5580	12.5
ax HE20	5700	12.5
ax HE20	5745	22.5
ax HE20	5785	22.5
ax HE20	5825	23.5

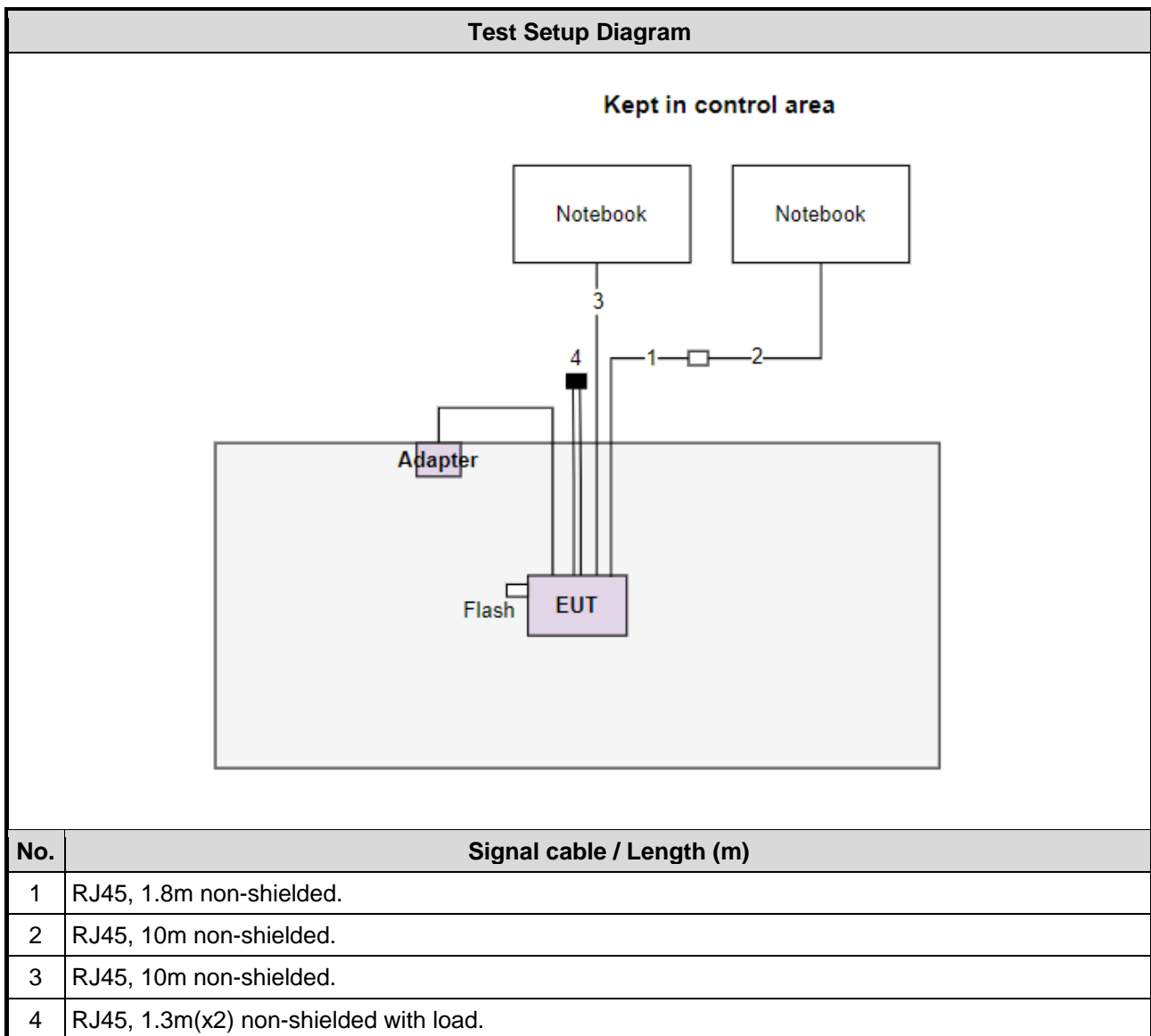
Modulation Mode	Test Frequency (MHz)	Power Index
ax HE40	5190	20.5
ax HE40	5230	24
ax HE40	5270	20.5
ax HE40	5310	20.5
ax HE40	5510	14.5
ax HE40	5590	15
ax HE40	5670	14
ax HE40	5755	22.5
ax HE40	5795	22.5
ax HE80	5210	19
ax HE80	5290	19.5
ax HE80	5530	16
ax HE80	5610	17
ax HE80	5775	20.5

Modulation Mode	Test Frequency (MHz)	Power Index
11a	5720	12
ax HE20	5720	12
ax HE40	5710	15
ax HE80	5690	17

## 1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5470	DoC	---
2	Notebook	DELL	Latitude 5400	DoC	---
3	USB 3.0 flash	Transcend	JetFlash 700	---	---
4	Load	ICC	---	---	---

## 1.3 Test Setup Chart



## 1.4 The Equipment List

<b>Test Item</b>	Conducted Emission				
<b>Test Site</b>	Conduction room 1 / (CO01-WS)				
<b>Tested Date</b>	Mar. 22, 2022				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101295	Jan. 12, 2022	Jan. 11, 2023
LISN (Support Unit)	SCHWARZBECK	NSLK 8127	8127667	Jan .07, 2022	Jan .06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

<b>Test Item</b>	Radiated Emission				
<b>Test Site</b>	966 chamber1 / (03CH01-WS)				
<b>Tested Date</b>	Mar. 15 ~ Mar. 19, 2022				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M-8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

<b>Test Item</b>	RF Conducted				
<b>Test Site</b>	(TH01-WS)				
<b>Tested Date</b>	Mar. 24 ~ Mar. 30, 2022				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	May 25, 2021	May 24, 2022
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 03, 2021	Dec. 02, 2022
Measurement Software	Sporton	SENSE-15247_DTS	V5.10	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

## 1.5 Test Standards

47 CFR FCC Part 15.407  
ANSI C63.10-2013

## 1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01  
FCC KDB 662911 D01 Multiple Transmitter Output v02r01  
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

## 1.7 Deviation from Test Standard and Measurement Procedure

None

## 1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Frequency error	±1×10 <sup>-9</sup>
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Unwanted Emission ≤ 1GHz	±3.41 dB
Unwanted Emission > 1GHz	±4.59 dB
Time	±0.1%
Temperature	±0.4 °C

---

## 2 Test Configuration

### 2.1 Testing Facility

<b>Test Laboratory</b>	International Certification Corporation
<b>Test Site</b>	CO01-WS, 03CH01-WS, TH01-WS
<b>Address of Test Site</b>	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

## 2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5350 MHz / 5470~5725 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
<b>Non-beamforming mode</b>				
AC Power Line Conducted Emissions	11a	5200	6 Mbps	---
Unwanted Emissions ≤1GHz	11a	5200	6 Mbps	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	ax HE80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Frequency Stability	Un-modulation	5320	---	---
<b>Beamforming mode</b>				
Conducted Output Power	ax HE20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	---
	ax HE40	5190 / 5230 / 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	---
	ax HE80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	---
Frequency band 5725-5850 MHz				
Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
AC Power Line Conducted Emissions	ax HE40	5755	MCS 0	---
Unwanted Emissions ≤1GHz	ax HE40	5755	MCS 0	---
Unwanted Emissions >1GHz Conducted Output Power Emission Bandwidth 6dB bandwidth Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	---
	ax HE20	5745 / 5785 / 5825	MCS 0	
	ax HE40	5755 / 5795	MCS 0	
	ax HE80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	---
<b>Beamforming mode</b>				
Conducted Output Power	ax HE20	5745 / 5785 / 5825	MCS 0	---
	ax HE40	5755 / 5795	MCS 0	---
	ax HE80	5775	MCS 0	---
<b>NOTE:</b>				
1) Two RJ45 cables (1m & 1.8m) had been covered during the pretest and found that RJ45 <b>1.8m</b> cable was the worst case and was selected for final testing.				
2) Two adapters had been covered during the pretest and found that <b>KSA-36W-120300HU</b> adapter was the worst case for conducted emission test and <b>WA-36N12R</b> adapter was the worst case for radiated emission test.				



### 3 Transmitter Test Results

#### 3.1 Emission Bandwidth

##### 3.1.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

##### 3.1.2 Test Procedures

###### 26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

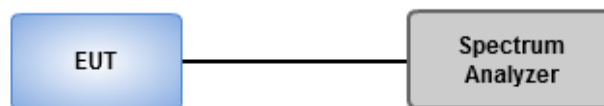
###### Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW  $\geq$  3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

###### 6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak, Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

##### 3.1.3 Test Setup



##### 3.1.4 Test Results

<b>Ambient Condition</b>	20-24°C / 67-68%	<b>Tested By</b>	Aska Huang
--------------------------	------------------	------------------	------------

Refer to Appendix A.

## 3.2 Conducted Output Power

### 3.2.1 Limit of Conducted Output Power

Frequency band 5150-5250 MHz	
Operating Mode	Limit
<input type="checkbox"/> Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
<input checked="" type="checkbox"/> Indoor access point	Conducted Power: 1 W
<input type="checkbox"/> Fixed point-to-point access points	Conducted Power: 1 W
<input type="checkbox"/> Client devices	Conducted Power: 250 mW

Frequency Band (MHz)	Limit
<input checked="" type="checkbox"/> 5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
<input checked="" type="checkbox"/> 5725 ~ 5850	Conducted Power: 1 W

Note: "B" is the 26dB emission bandwidth in MHz.

### 3.2.2 Test Procedures

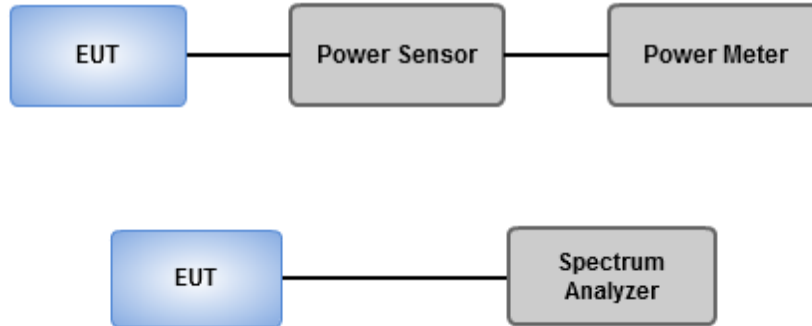
#### Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

#### Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add  $10 \log(1/X)$ , X:duty cycle) if duty cycle is <98%).

### 3.2.3 Test Setup



### 3.2.4 Test Results

<b>Ambient Condition</b>	20-24°C / 67-68%	<b>Tested By</b>	Aska Huang
--------------------------	------------------	------------------	------------

Refer to Appendix B.

### 3.3 Power Spectral Density

#### 3.3.1 Limit of Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		Limit
<input type="checkbox"/>	Outdoor access point	17 dBm / MHz
<input checked="" type="checkbox"/>	Indoor access point	17 dBm / MHz
<input type="checkbox"/>	Fixed point-to-point access points	17 dBm / MHz
<input type="checkbox"/>	Client devices	11 dBm / MHz

Frequency Band (MHz)	Limit
<input checked="" type="checkbox"/> 5250 ~ 5350	11 dBm / MHz
<input checked="" type="checkbox"/> 5470 ~ 5725	11 dBm / MHz
<input checked="" type="checkbox"/> 5725 ~ 5850	30 dBm /500 kHz

#### 3.3.2 Test Procedures

##### For 5150 ~ 5250 MHz / 5250 ~ 5350 MHz / 5470 ~ 5725 MHz

Duty cycle  $\geq$  98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time  $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$ .
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add  $10 \log(1/x)$ , where x is the duty cycle.

##### For 5725 ~ 5850 MHz

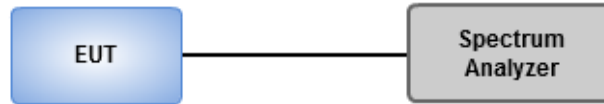
Duty cycle  $\geq$  98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time  $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$ .
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add  $10 \log(1/x)$ , where x is the duty cycle.

### 3.3.3 Test Setup



### 3.3.4 Test Results

<b>Ambient Condition</b>	20-24°C / 67-68%	<b>Tested By</b>	Aska Huang
--------------------------	------------------	------------------	------------

Refer to Appendix C.

### 3.4 Unwanted Emissions

#### 3.4.1 Limit of Unwanted Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

**Note 1:**  
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

**Note 2:**  
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

**Note 1:** Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

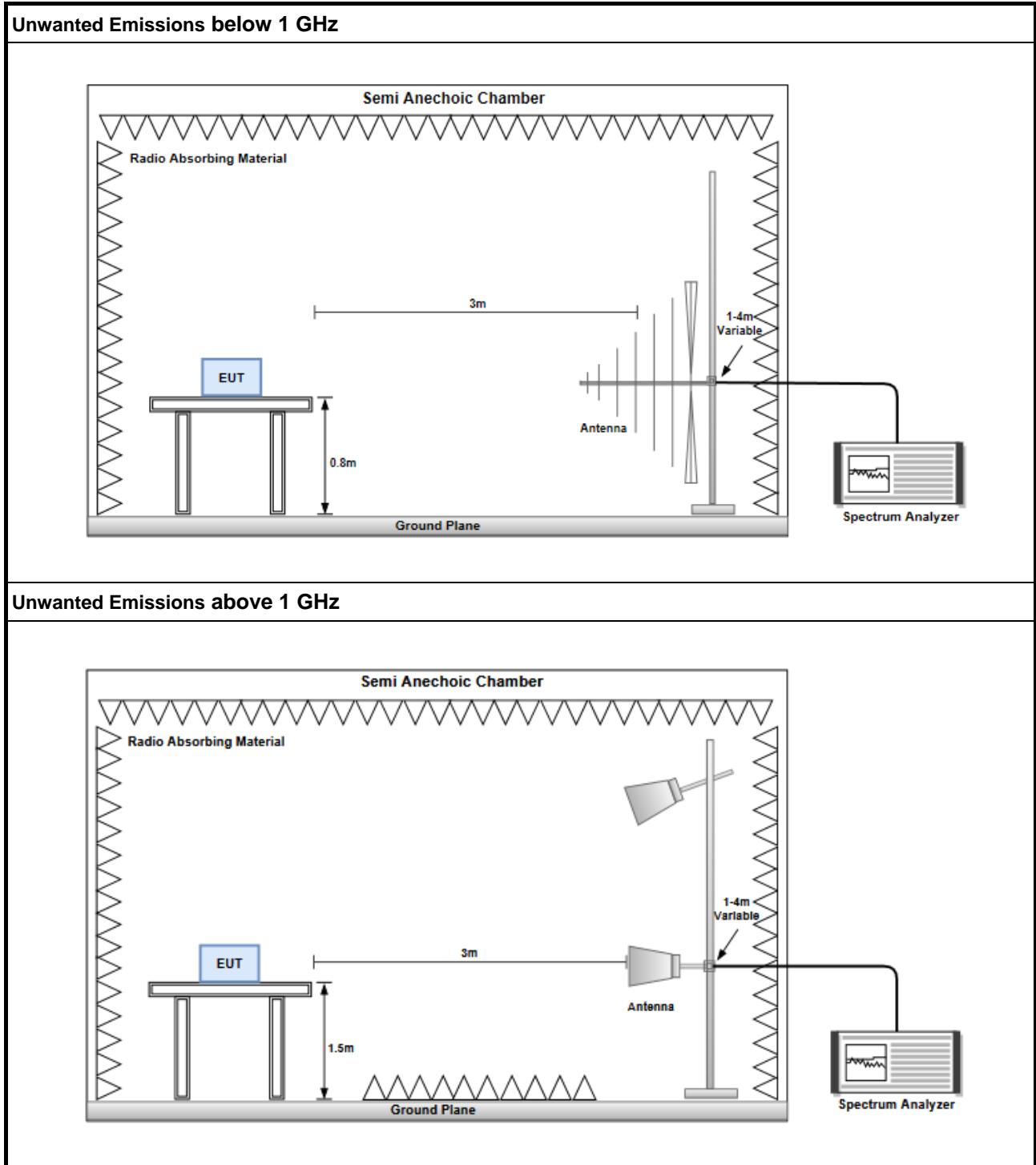
### 3.4.2 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

### 3.4.3 Test Setup



### 3.4.4 Test Results

Refer to Appendix D.



### 3.5 Frequency Stability

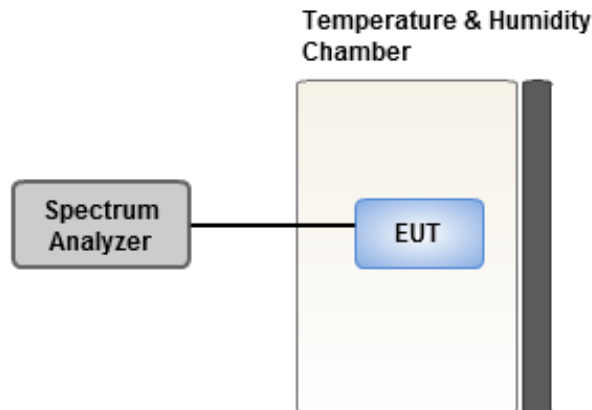
#### 3.5.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

#### 3.5.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

#### 3.5.3 Test Setup



#### 3.5.4 Test Results

<b>Ambient Condition</b>	20-24°C / 67-68%	<b>Tested By</b>	Aska Huang
--------------------------	------------------	------------------	------------

Refer to Appendix E.

## 3.6 AC Power Line Conducted Emissions

### 3.6.1 Limit of AC Power Line Conducted Emissions

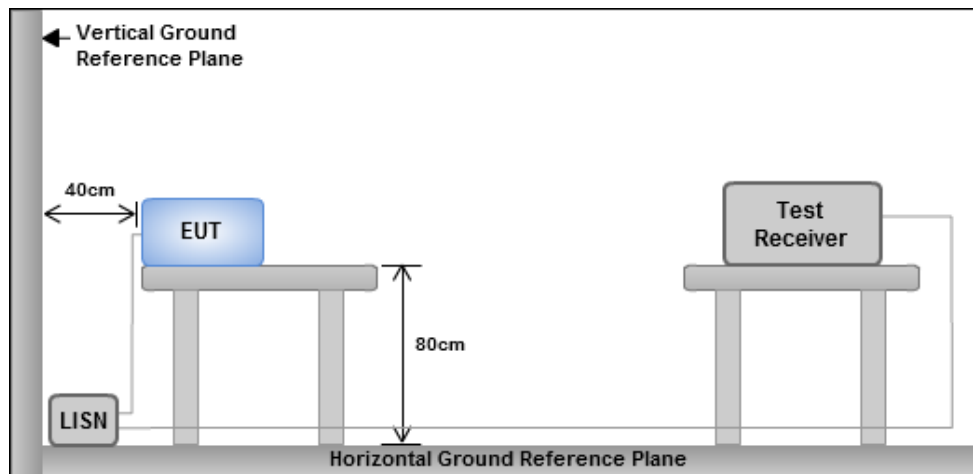
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: \* Decreases with the logarithm of the frequency.

### 3.6.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

### 3.6.3 Test Setup



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.6.4 Test Results

Refer to Appendix F.

## 4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

### **Linkou**

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou  
District, New Taipei City, Taiwan  
(R.O.C.)

### **Kwei Shan**

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 33381, Taiwan (R.O.C.)  
No.2-1, Lane 6, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 33381, Taiwan (R.O.C.)

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd  
St., Kwei Shan Dist., Tao Yuan  
City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC\_Service@icertifi.com.tw

==END==



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	21.54M	16.642M	16M6D1D	20.46M	16.432M
802.11ax HEW20_Nss1,(MCS0)_2TX	23.7M	19.01M	19M0D1D	21.42M	18.921M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.58M	38.081M	38M1D1D	41.1M	37.841M
802.11ax HEW80_Nss1,(MCS0)_2TX	82.32M	77.241M	77M2D1D	81.84M	77.121M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	20.67M	16.492M	16M5D1D	20.13M	16.432M
802.11ax HEW20_Nss1,(MCS0)_2TX	21.57M	18.951M	19M0D1D	21.18M	18.921M
802.11ax HEW40_Nss1,(MCS0)_2TX	41.34M	37.961M	38M0D1D	41.04M	37.841M
802.11ax HEW80_Nss1,(MCS0)_2TX	83.28M	77.481M	77M5D1D	82.8M	77.241M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	19.77M	16.462M	16M5D1D	14.55M	13.238M
802.11ax HEW20_Nss1,(MCS0)_4TX	21.39M	18.951M	19M0D1D	15.585M	14.453M
802.11ax HEW40_Nss1,(MCS0)_4TX	41.4M	38.021M	38M0D1D	35.455M	33.828M
802.11ax HEW80_Nss1,(MCS0)_4TX	82.68M	77.481M	77M5D1D	75.9M	73.088M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.32M	16.582M	16M6D1D	3.12M	3.438M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.93M	18.981M	19M0D1D	4.44M	4.578M
802.11ax HEW40_Nss1,(MCS0)_4TX	38.04M	38.141M	38M1D1D	3.96M	4.118M
802.11ax HEW80_Nss1,(MCS0)_4TX	77.88M	77.481M	77M5D1D	4.02M	4.218M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

Max-OBW = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Minimum 26dB down bandwidth for other band;

Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.46M	16.462M	20.61M	16.462M				
5200MHz	Pass	Inf	20.46M	16.462M	20.46M	16.432M				
5240MHz	Pass	Inf	21.54M	16.642M	21.3M	16.552M				
5260MHz	Pass	Inf	20.13M	16.462M	20.34M	16.492M				
5300MHz	Pass	Inf	20.55M	16.432M	20.67M	16.462M				
5320MHz	Pass	Inf	20.61M	16.432M	20.67M	16.492M				
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	Inf	19.32M	16.402M	19.35M	16.432M	19.44M	16.432M	19.62M	16.432M
5580MHz	Pass	Inf	19.77M	16.462M	19.29M	16.432M	19.68M	16.432M	19.44M	16.432M
5700MHz	Pass	Inf	19.62M	16.462M	19.26M	16.462M	19.65M	16.432M	19.56M	16.432M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	14.67M	13.253M	14.55M	13.238M	14.61M	13.238M	14.73M	13.253M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.12M	3.438M	3.14M	3.458M	3.12M	3.478M	3.12M	3.438M
5745MHz	Pass	500k	16.29M	16.522M	16.29M	16.522M	16.29M	16.432M	16.32M	16.432M
5785MHz	Pass	500k	16.32M	16.582M	16.32M	16.552M	16.32M	16.492M	16.32M	16.462M
5825MHz	Pass	500k	16.02M	16.522M	16.05M	16.522M	16.29M	16.492M	16.32M	16.462M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.57M	18.951M	21.42M	18.921M				
5200MHz	Pass	Inf	21.75M	18.981M	21.57M	18.921M				
5240MHz	Pass	Inf	22.05M	19.01M	23.7M	19.01M				
5260MHz	Pass	Inf	21.54M	18.921M	21.39M	18.921M				
5300MHz	Pass	Inf	21.57M	18.951M	21.54M	18.921M				
5320MHz	Pass	Inf	21.18M	18.921M	21.51M	18.921M				
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	Inf	21.36M	18.951M	21.27M	18.951M	21.3M	18.921M	21.27M	18.891M
5580MHz	Pass	Inf	21.12M	18.951M	21.12M	18.951M	21.39M	18.921M	21.03M	18.891M
5700MHz	Pass	Inf	21.06M	18.951M	21.21M	18.921M	21.18M	18.951M	21.03M	18.921M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.735M	14.468M	15.585M	14.453M	15.615M	14.453M	15.6M	14.468M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.5M	4.578M	4.46M	4.598M	4.44M	4.578M	4.44M	4.578M
5745MHz	Pass	500k	18.93M	18.981M	18.87M	18.921M	18.81M	18.981M	18.84M	18.921M
5785MHz	Pass	500k	18.63M	18.921M	18.81M	18.951M	18.81M	18.951M	18.93M	18.921M
5825MHz	Pass	500k	18.87M	18.981M	18.72M	18.951M	18.93M	18.981M	18.87M	18.921M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.1M	37.841M	41.22M	37.841M				
5230MHz	Pass	Inf	41.28M	38.081M	41.58M	38.021M				
5270MHz	Pass	Inf	41.1M	37.961M	41.34M	37.901M				
5310MHz	Pass	Inf	41.04M	37.841M	41.28M	37.901M				
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	Inf	41.4M	37.901M	40.56M	37.901M	40.86M	37.961M	40.86M	38.021M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5590MHz	Pass	Inf	40.92M	37.961M	40.86M	37.901M	40.98M	37.901M	40.86M	37.961M
5670MHz	Pass	Inf	41.04M	37.961M	40.68M	37.961M	41.1M	37.961M	40.74M	37.961M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.455M	33.863M	35.525M	33.828M	35.665M	33.898M	35.665M	33.828M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.118M	4.04M	4.158M	3.96M	4.158M	4.04M	4.158M
5755MHz	Pass	500k	37.92M	38.141M	38.04M	38.021M	38.04M	38.081M	37.56M	38.021M
5795MHz	Pass	500k	37.92M	38.141M	37.68M	38.081M	37.74M	38.021M	37.86M	37.961M
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.32M	77.121M	81.84M	77.241M				
5290MHz	Pass	Inf	82.8M	77.481M	83.28M	77.241M				
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	Inf	82.68M	77.481M	82.68M	77.241M	82.56M	77.361M	82.08M	77.121M
5610MHz	Pass	Inf	82.2M	77.361M	82.08M	77.241M	82.2M	77.361M	82.08M	77.241M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.975M	73.238M	76.425M	73.313M	76.275M	73.088M	75.9M	73.163M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.02M	4.278M	4.02M	4.258M	4.02M	4.238M	4.04M	4.218M
5775MHz	Pass	500k	77.88M	77.481M	77.16M	77.361M	77.52M	77.481M	76.56M	77.481M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band  
 Port X-OBW = Port X 99% occupied bandwidth

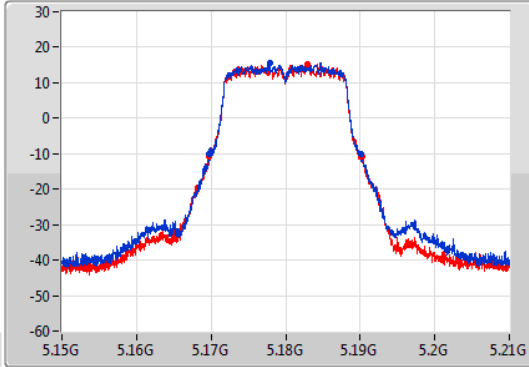


802.11a\_Nss1,(6Mbps)\_2TX

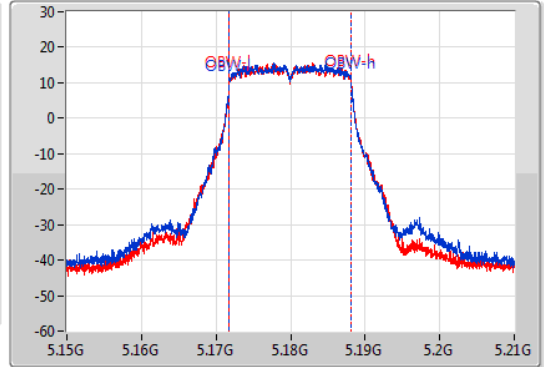
EBW

5180MHz

CF  
5.18GHz  
Span  
60MHz  
RBW  
300kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.18GHz  
Span  
60MHz  
RBW  
300kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



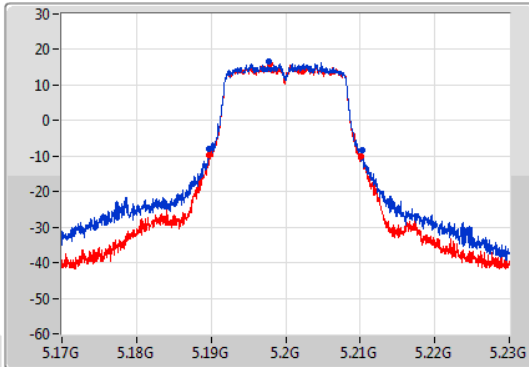
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.46M	5.16971G	5.19017G	16.462M	5.171724G	5.188186G	Inf	1
20.61M	5.16968G	5.19029G	16.462M	5.171724G	5.188186G	Inf	2

802.11a\_Nss1,(6Mbps)\_2TX

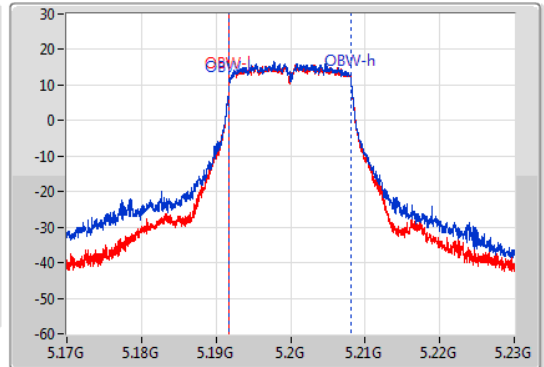
EBW

5200MHz

CF  
5.2GHz  
Span  
60MHz  
RBW  
300kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.2GHz  
Span  
60MHz  
RBW  
300kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



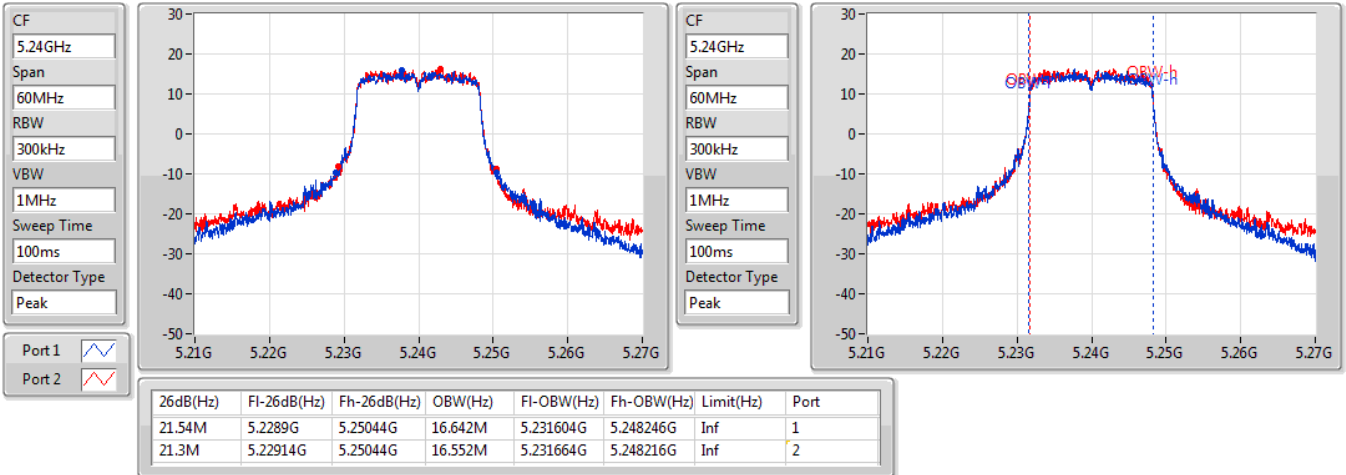
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.46M	5.18974G	5.2102G	16.462M	5.191724G	5.208186G	Inf	1
20.46M	5.18971G	5.21017G	16.432M	5.191754G	5.208186G	Inf	2



802.11a\_Nss1,(6Mbps)\_2TX

EBW

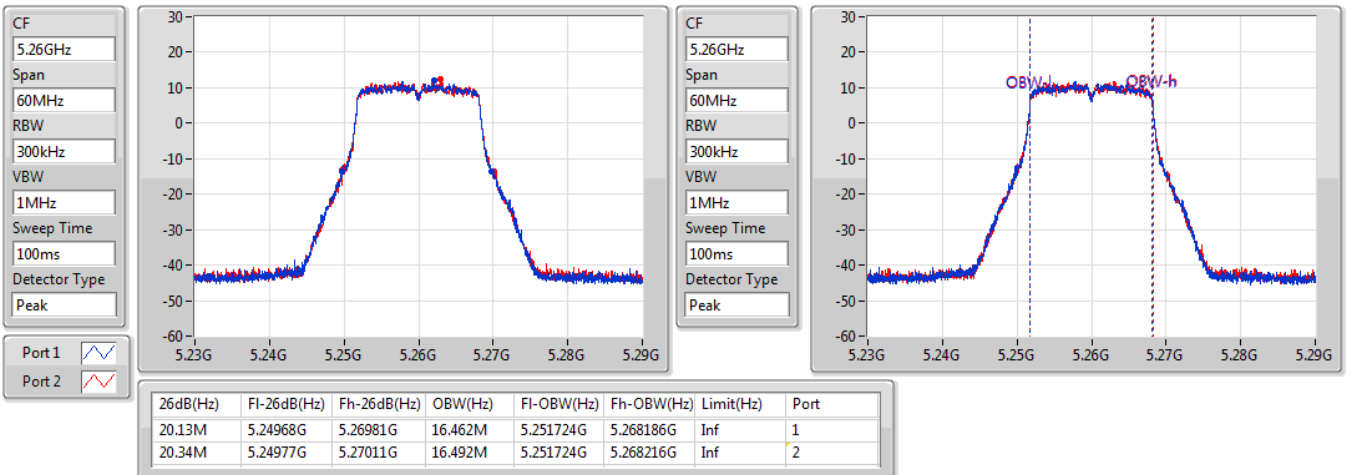
5240MHz



802.11a\_Nss1,(6Mbps)\_2TX

EBW

5260MHz





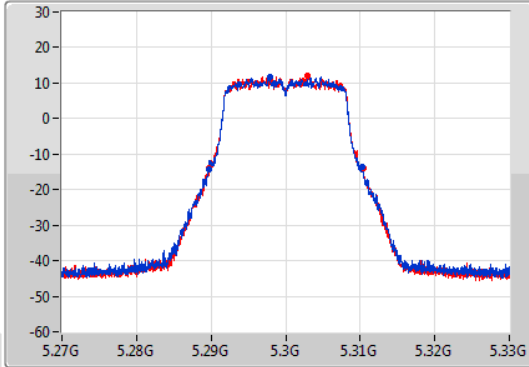


802.11a\_Nss1,(6Mbps)\_2TX

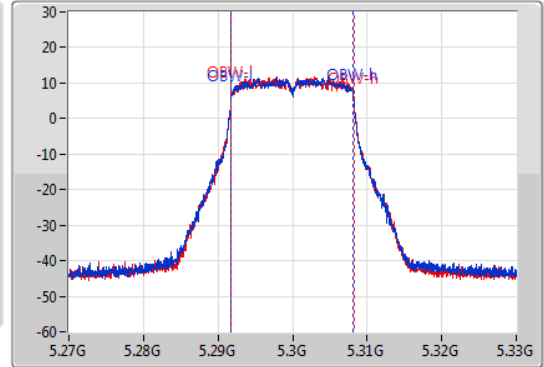
EBW

5300MHz

CF  
5.3GHz  
Span  
60MHz  
RBW  
300kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.3GHz  
Span  
60MHz  
RBW  
300kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



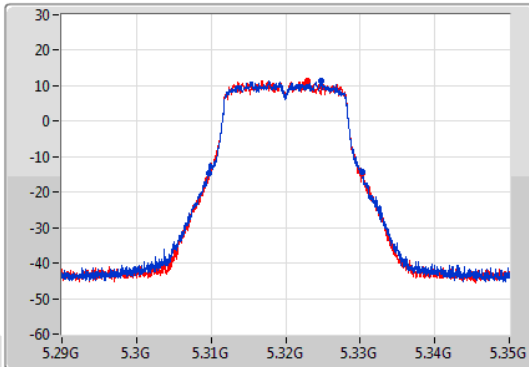
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.55M	5.28965G	5.3102G	16.432M	5.291754G	5.308186G	Inf	1
20.67M	5.28971G	5.31038G	16.462M	5.291754G	5.308216G	Inf	2

802.11a\_Nss1,(6Mbps)\_2TX

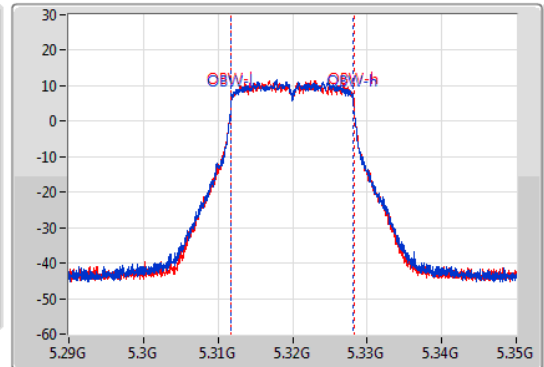
EBW

5320MHz

CF  
5.32GHz  
Span  
60MHz  
RBW  
300kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.32GHz  
Span  
60MHz  
RBW  
300kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20.61M	5.30965G	5.33026G	16.432M	5.311754G	5.328186G	Inf	1
20.67M	5.30968G	5.33035G	16.492M	5.311724G	5.328216G	Inf	2

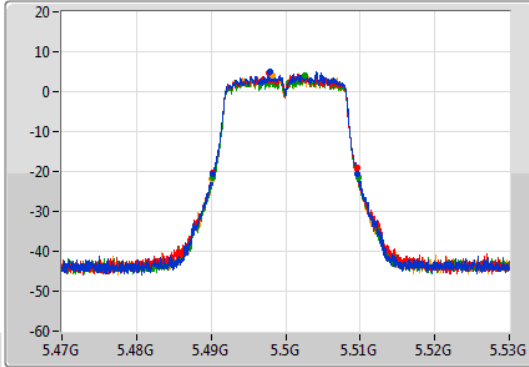


802.11a\_Nss1,(6Mbps)\_4TX

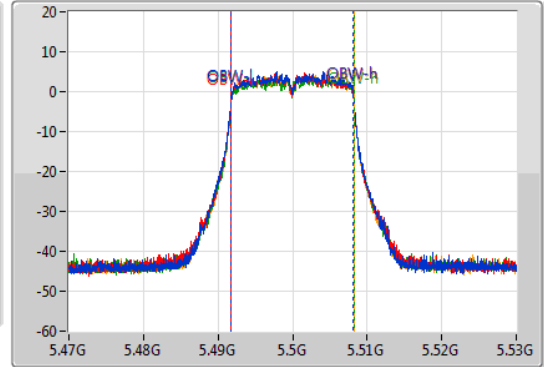
EBW

5500MHz

CF: 5.5GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.5GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Blue line]  
 Port 2: [Red line]  
 Port 3: [Green line]  
 Port 4: [Orange line]

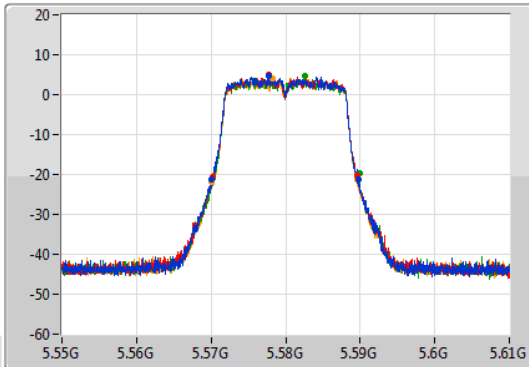
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.32M	5.49025G	5.50957G	16.402M	5.491784G	5.508186G	Inf	1
19.35M	5.49028G	5.50963G	16.432M	5.491754G	5.508186G	Inf	2
19.44M	5.49028G	5.50972G	16.432M	5.491784G	5.508216G	Inf	3
19.62M	5.4901G	5.50972G	16.432M	5.491784G	5.508216G	Inf	4

802.11a\_Nss1,(6Mbps)\_4TX

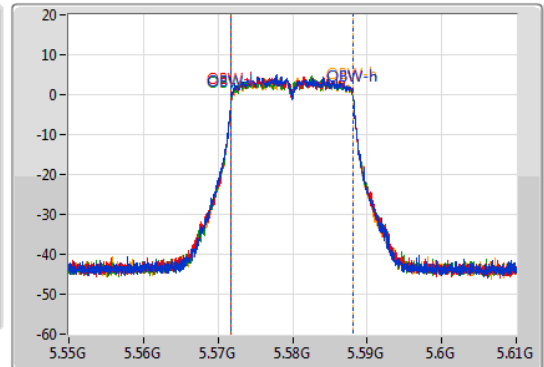
EBW

5580MHz

CF: 5.58GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.58GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Blue line]  
 Port 2: [Red line]  
 Port 3: [Green line]  
 Port 4: [Orange line]

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.77M	5.57001G	5.58978G	16.462M	5.571724G	5.588186G	Inf	1
19.29M	5.57025G	5.58954G	16.432M	5.571754G	5.588186G	Inf	2
19.68M	5.57019G	5.58987G	16.432M	5.571754G	5.588186G	Inf	3
19.44M	5.57013G	5.58957G	16.432M	5.571754G	5.588186G	Inf	4

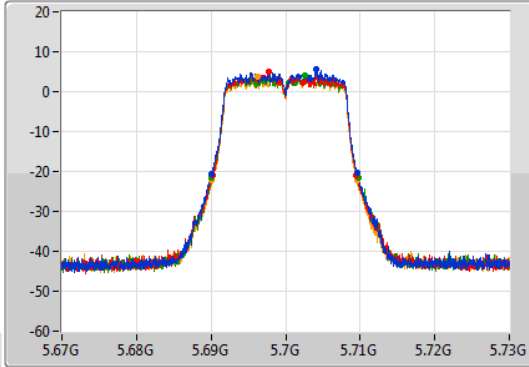


802.11a\_Nss1,(6Mbps)\_4TX

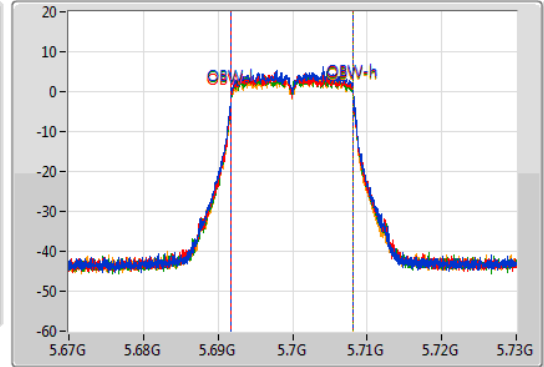
EBW

5700MHz

CF: 5.7GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.7GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Blue line]  
 Port 2: [Red line]  
 Port 3: [Green line]  
 Port 4: [Orange line]

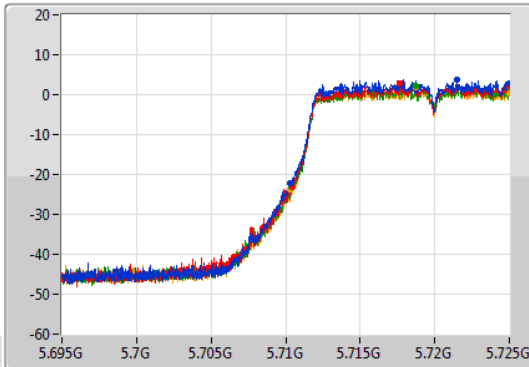
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.62M	5.69004G	5.70966G	16.462M	5.691724G	5.708186G	Inf	1
19.26M	5.69022G	5.70948G	16.462M	5.691724G	5.708186G	Inf	2
19.65M	5.69007G	5.70972G	16.432M	5.691754G	5.708186G	Inf	3
19.56M	5.68998G	5.70954G	16.432M	5.691754G	5.708186G	Inf	4

802.11a\_Nss1,(6Mbps)\_4TX

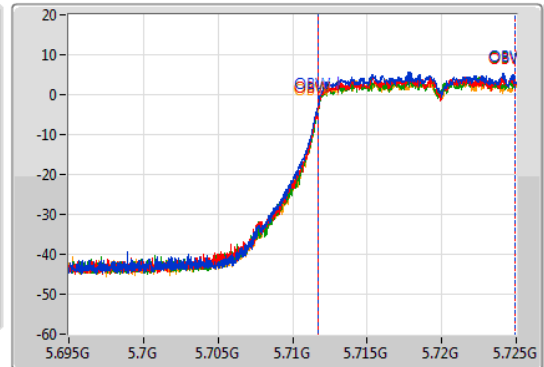
EBW

5720MHz Straddle 5.47-5.725GHz

CF: 5.71GHz  
 Span: 30MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.71GHz  
 Span: 30MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Blue line]  
 Port 2: [Red line]  
 Port 3: [Green line]  
 Port 4: [Orange line]

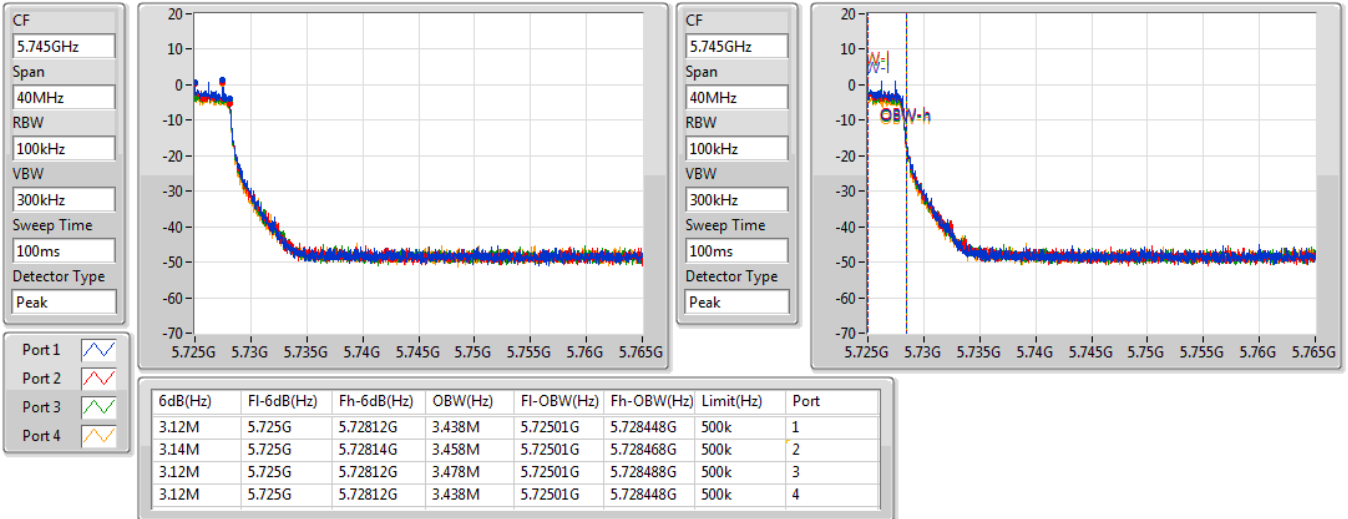
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.67M	5.71033G	5.725G	13.253M	5.711679G	5.724933G	Inf	1
14.55M	5.71045G	5.725G	13.238M	5.711694G	5.724933G	Inf	2
14.61M	5.71039G	5.725G	13.238M	5.711709G	5.724948G	Inf	3
14.73M	5.71027G	5.725G	13.253M	5.711679G	5.724933G	Inf	4



802.11a\_Nss1,(6Mbps)\_4TX

EBW

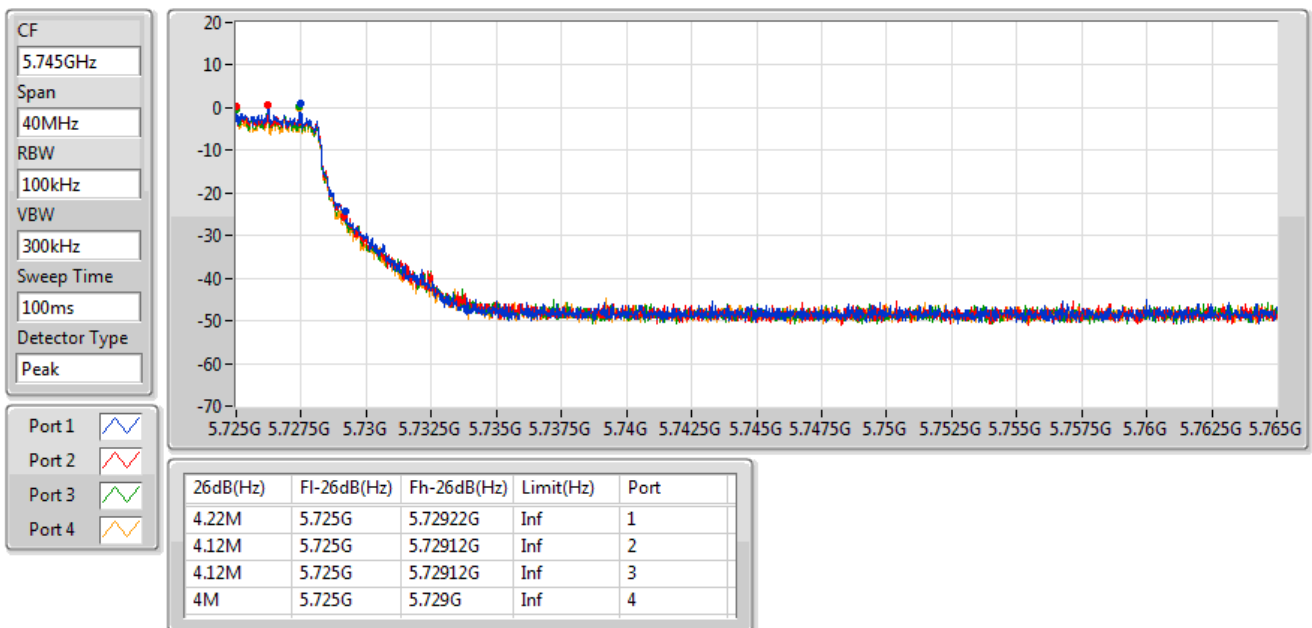
5720MHz Straddle 5.725-5.85GHz



802.11a\_Nss1,(6Mbps)\_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

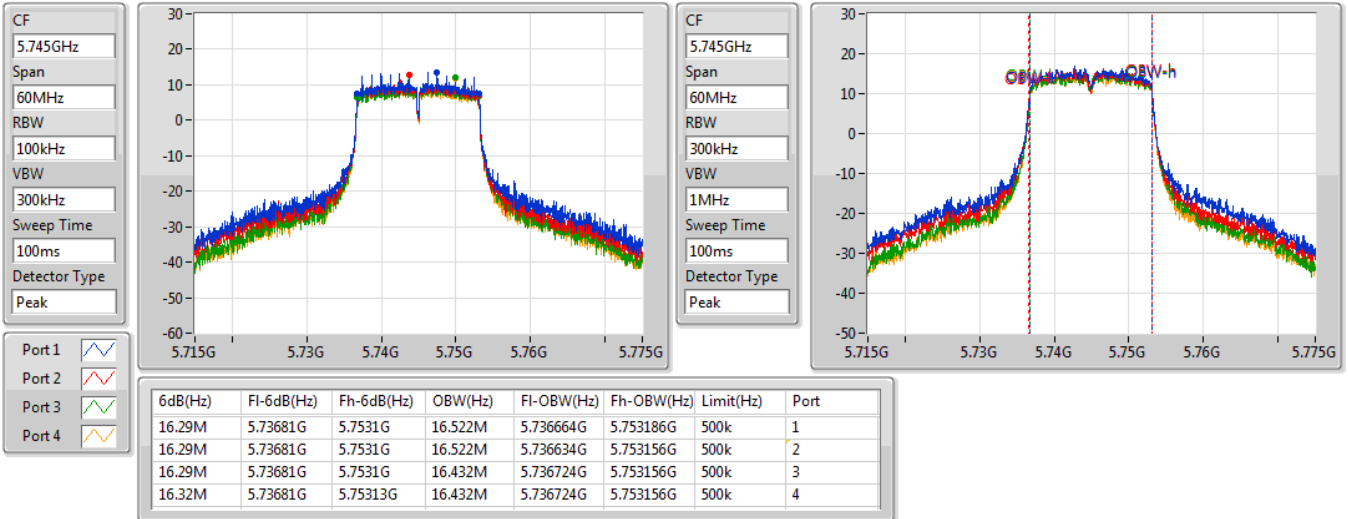




802.11a\_Nss1,(6Mbps)\_4TX

EBW

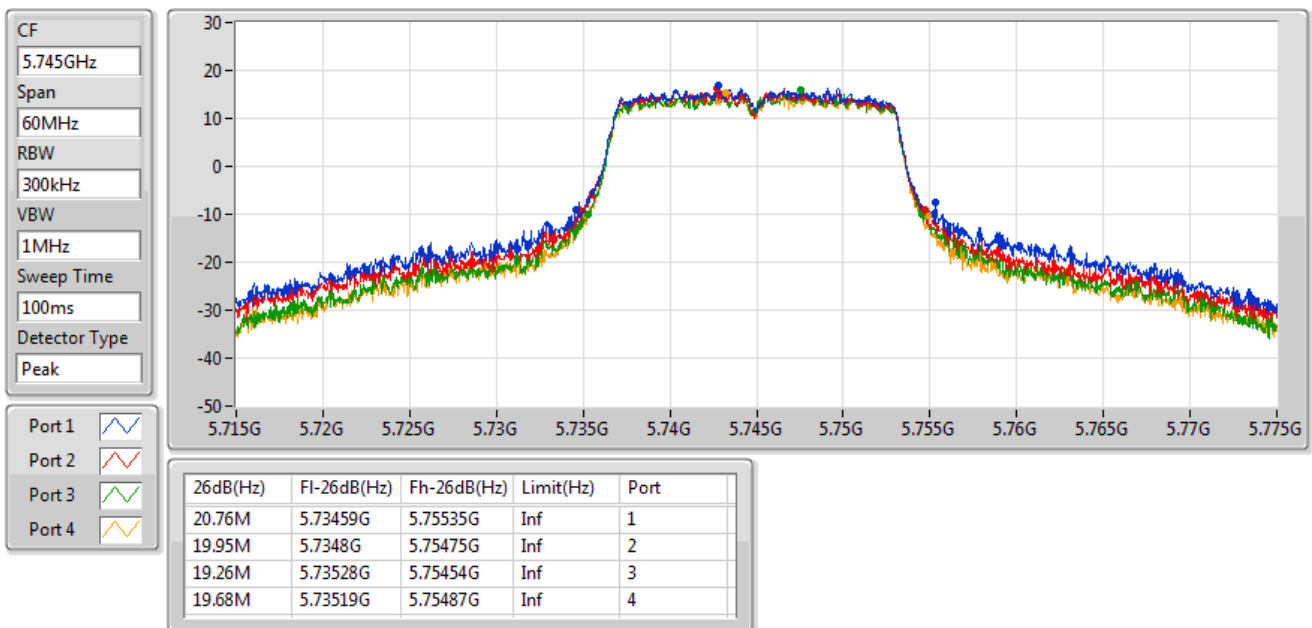
5745MHz



802.11a\_Nss1,(6Mbps)\_4TX

EBW

5745MHz



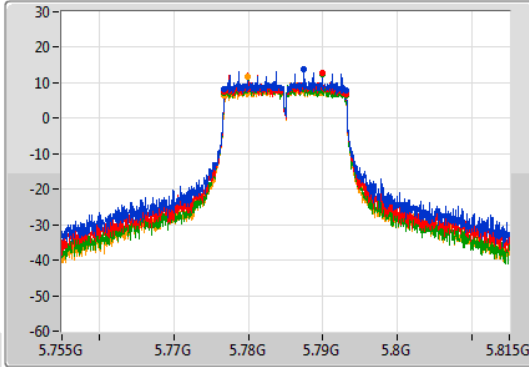


802.11a\_Nss1,(6Mbps)\_4TX

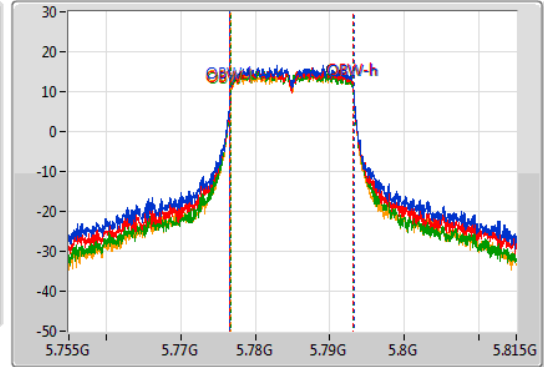
EBW

5785MHz

CF  
5.785GHz  
Span  
60MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.785GHz  
Span  
60MHz  
RBW  
300kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



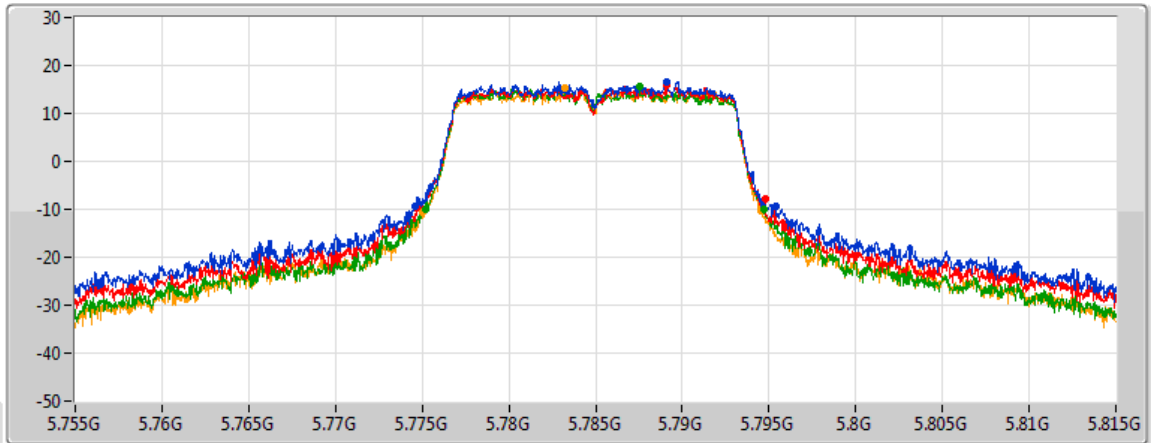
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.32M	5.77681G	5.79313G	16.582M	5.776634G	5.793216G	500k	1
16.32M	5.77681G	5.79313G	16.552M	5.776634G	5.793186G	500k	2
16.32M	5.77681G	5.79313G	16.492M	5.776694G	5.793186G	500k	3
16.32M	5.77681G	5.79313G	16.462M	5.776724G	5.793186G	500k	4

802.11a\_Nss1,(6Mbps)\_4TX

EBW

5785MHz

CF  
5.785GHz  
Span  
60MHz  
RBW  
300kHz  
VBW  
1MHz  
Sweep Time  
100ms  
Detector Type  
Peak



Port 1  
Port 2  
Port 3  
Port 4

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
20.82M	5.77456G	5.79538G	Inf	1
20.07M	5.77471G	5.79478G	Inf	2
19.56M	5.77519G	5.79475G	Inf	3
19.53M	5.77504G	5.79457G	Inf	4

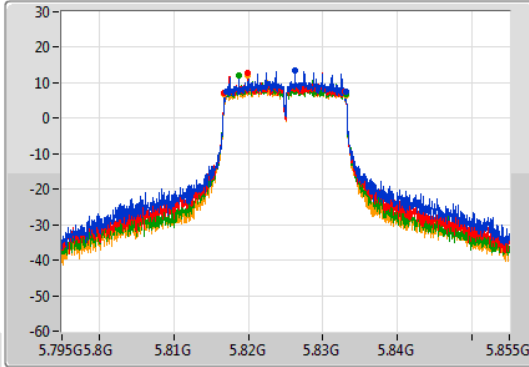


802.11a\_Nss1,(6Mbps)\_4TX

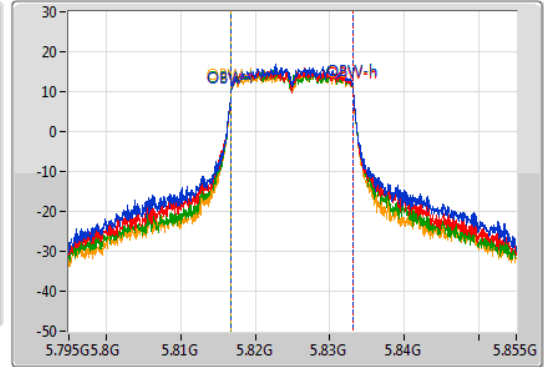
EBW

5825MHz

CF: 5.825GHz  
 Span: 60MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.825GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



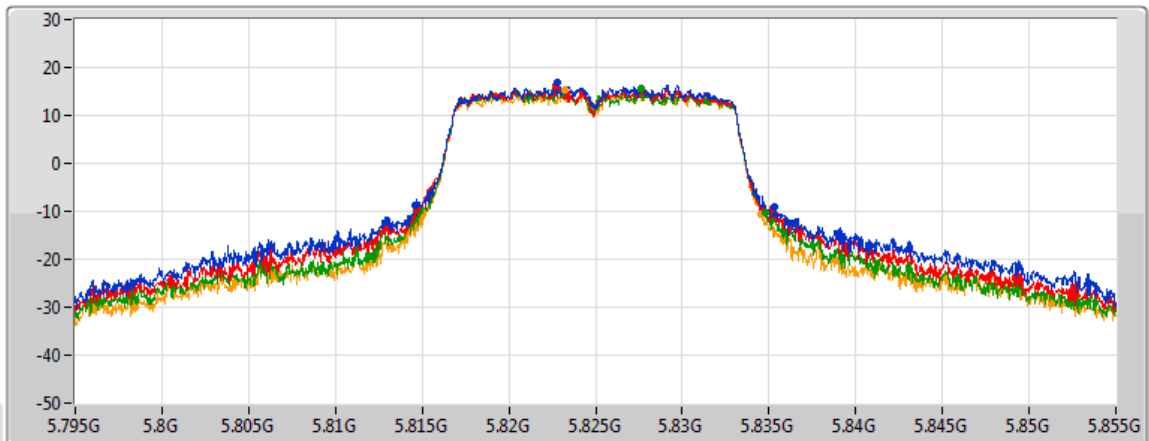
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.02M	5.81708G	5.8331G	16.522M	5.816664G	5.833186G	500k	1
16.05M	5.81681G	5.83286G	16.522M	5.816664G	5.833186G	500k	2
16.29M	5.81681G	5.8331G	16.492M	5.816694G	5.833186G	500k	3
16.32M	5.81681G	5.83313G	16.462M	5.816724G	5.833186G	500k	4

802.11a\_Nss1,(6Mbps)\_4TX

EBW

5825MHz

CF: 5.825GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1  
 Port 2  
 Port 3  
 Port 4

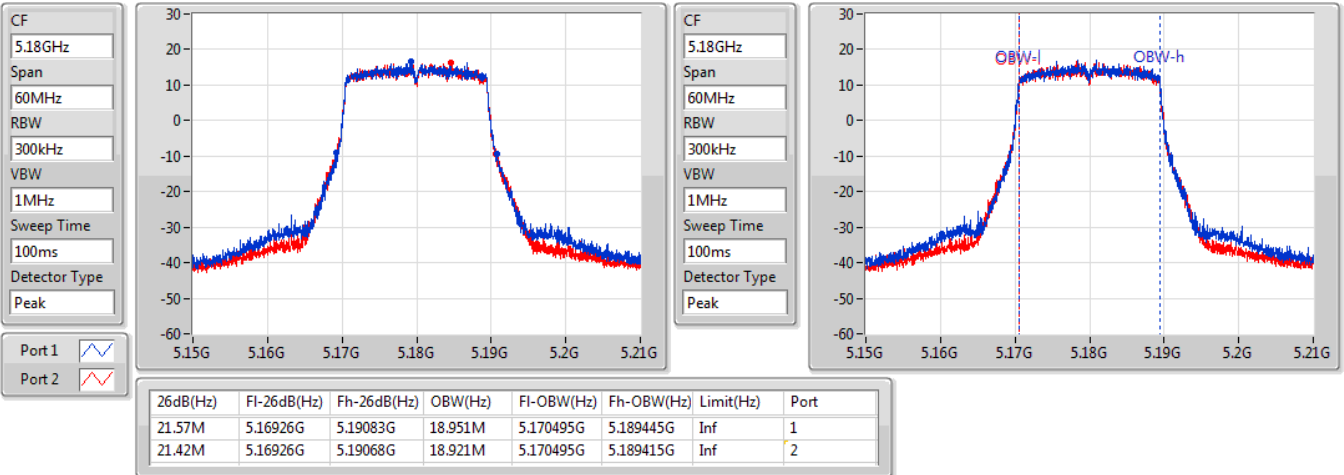
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
20.73M	5.81459G	5.83532G	Inf	1
20.58M	5.81465G	5.83523G	Inf	2
19.95M	5.81483G	5.83478G	Inf	3
19.47M	5.81507G	5.83454G	Inf	4



802.11ax HEW20\_Nss1,(MCS0)\_2TX

EBW

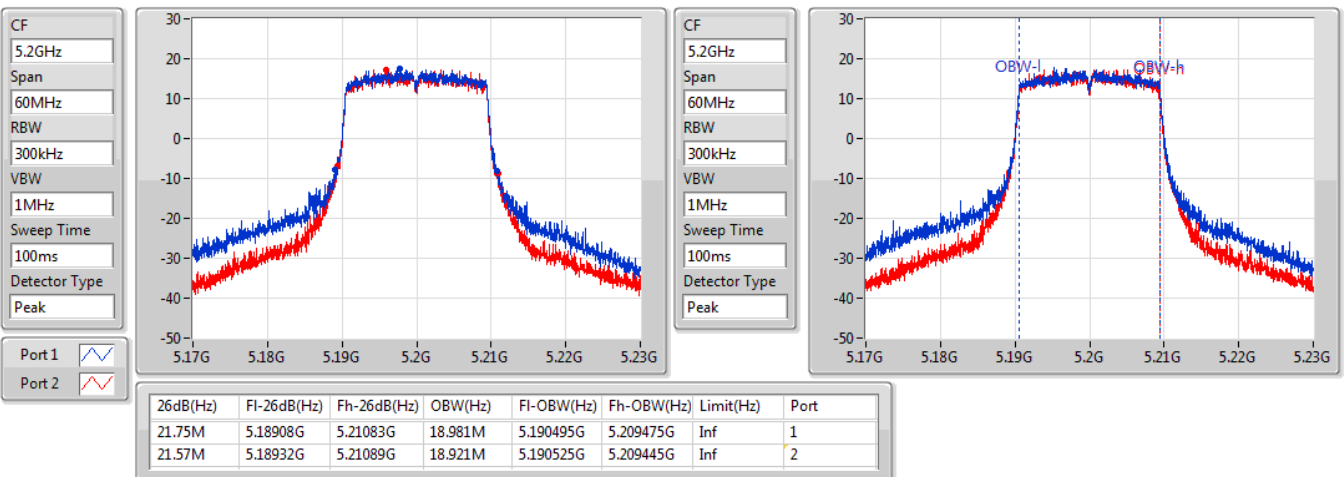
5180MHz



802.11ax HEW20\_Nss1,(MCS0)\_2TX

EBW

5200MHz



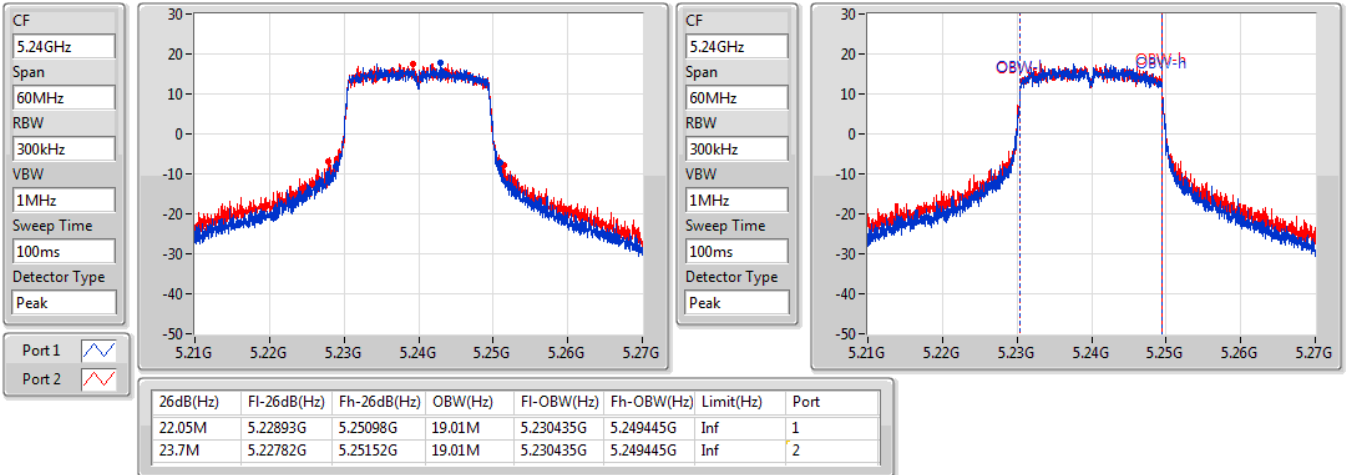




802.11ax HEW20\_Nss1,(MCS0)\_2TX

EBW

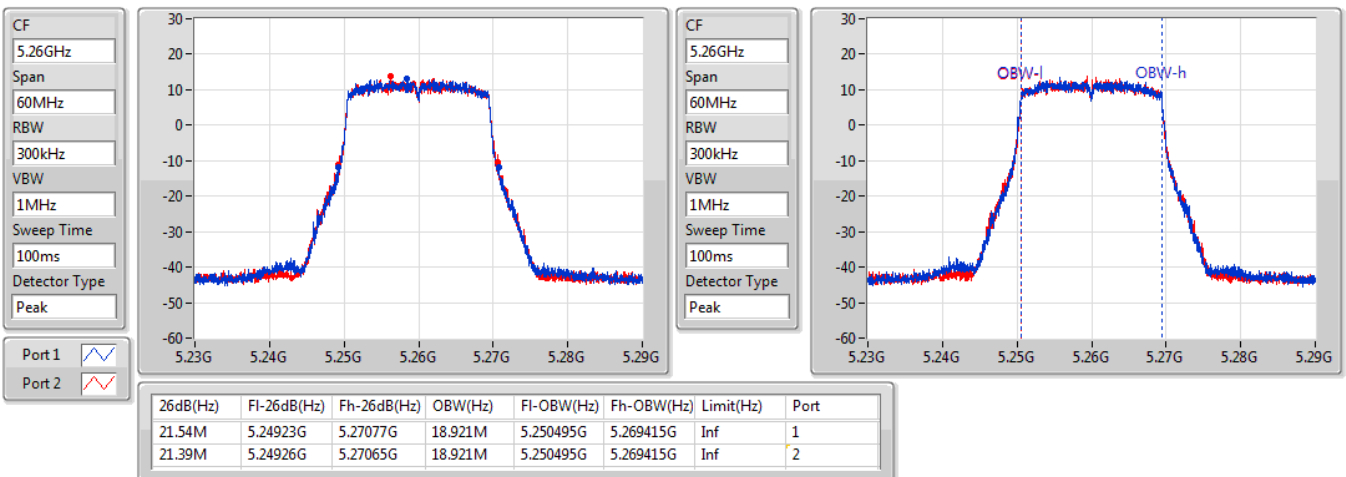
5240MHz



802.11ax HEW20\_Nss1,(MCS0)\_2TX

EBW

5260MHz

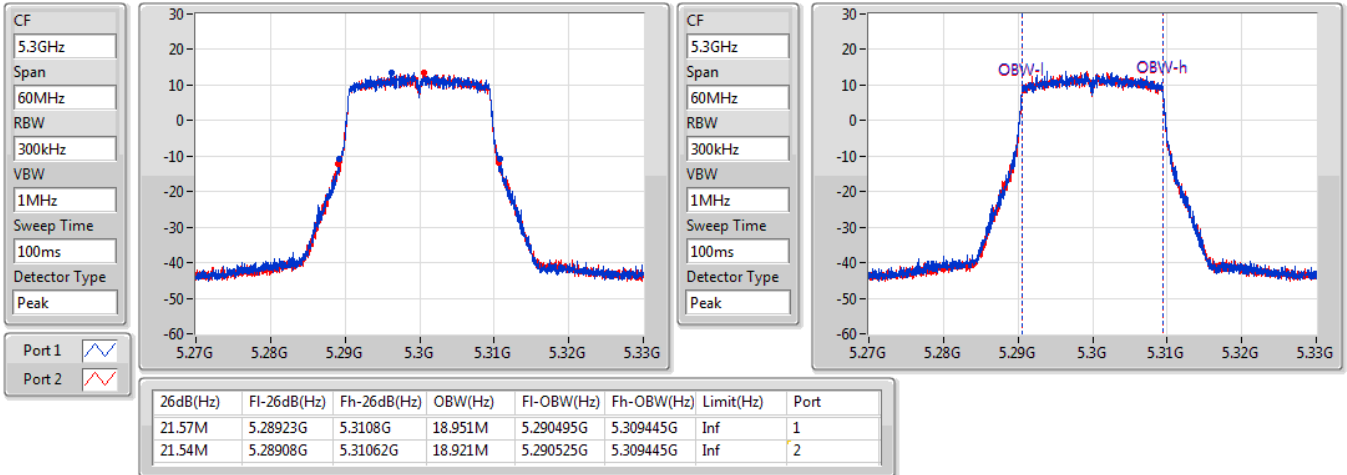




802.11ax HEW20\_Nss1,(MCS0)\_2TX

EBW

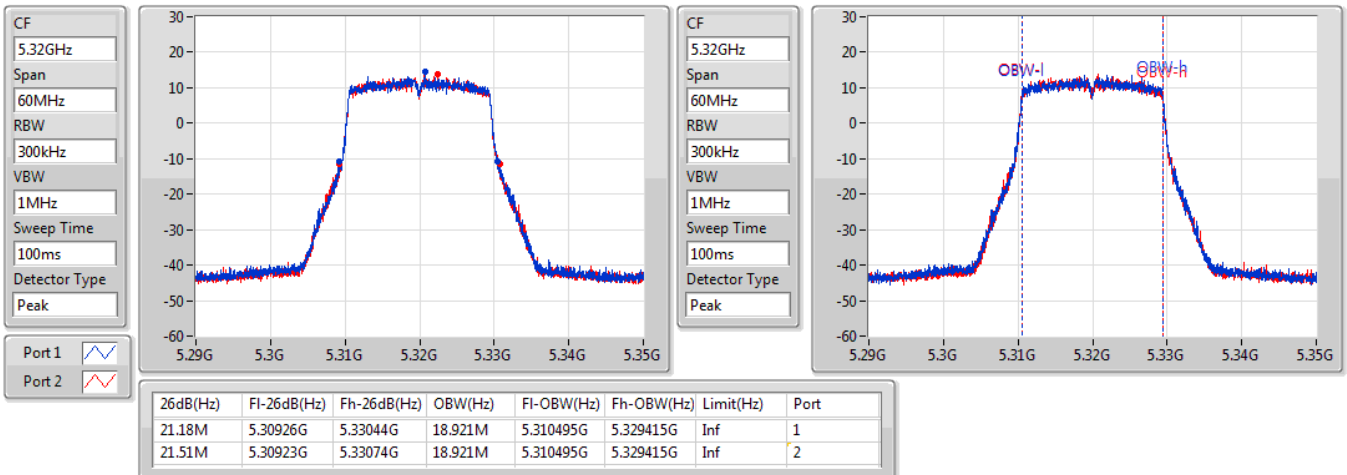
5300MHz



802.11ax HEW20\_Nss1,(MCS0)\_2TX

EBW

5320MHz

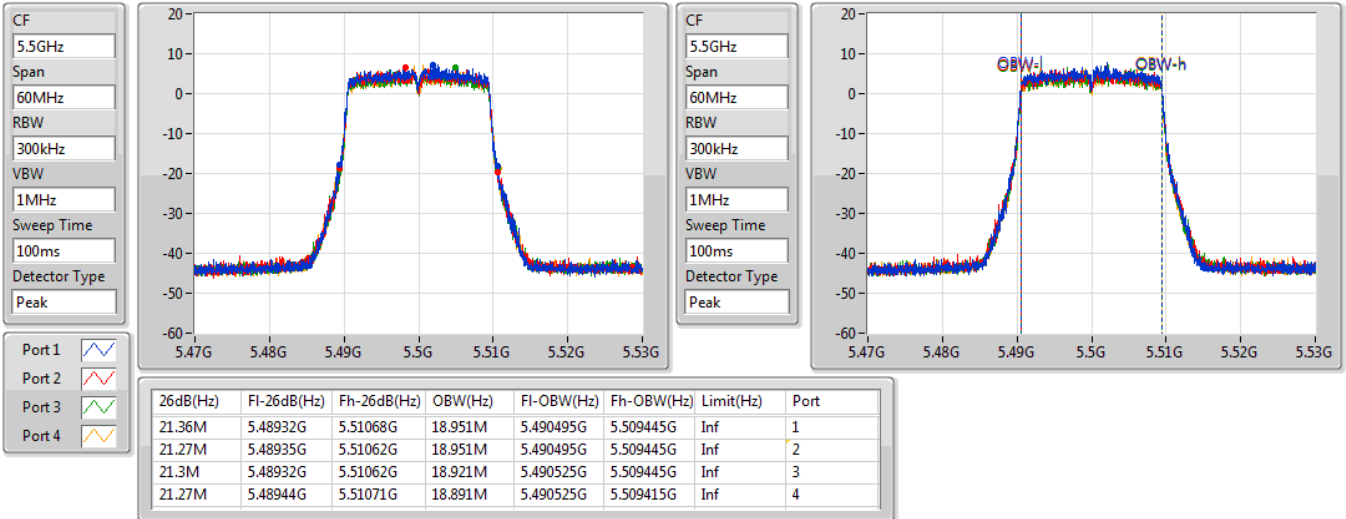




802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

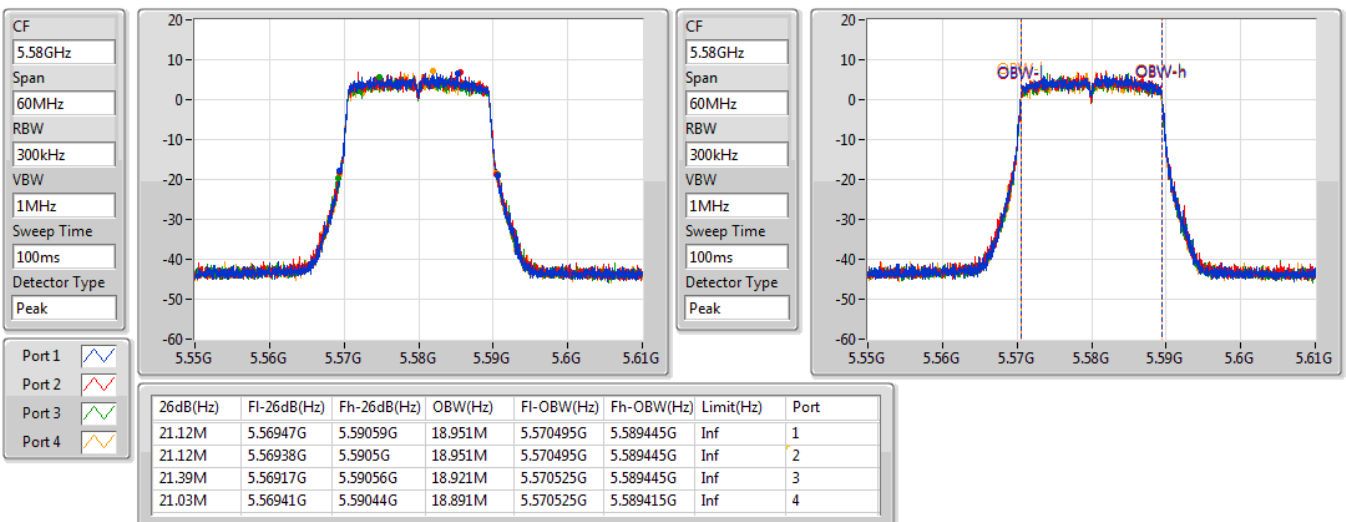
5500MHz



802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5580MHz



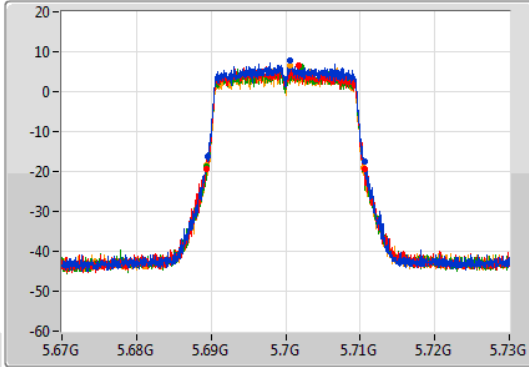


802.11ax HEW20\_Nss1,(MCS0)\_4TX

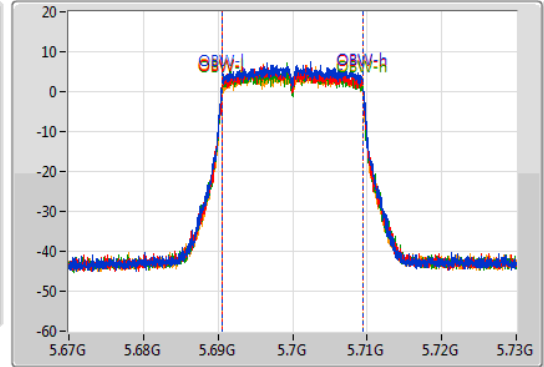
EBW

5700MHz

CF: 5.7GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.7GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Blue line]  
 Port 2: [Red line]  
 Port 3: [Green line]  
 Port 4: [Orange line]

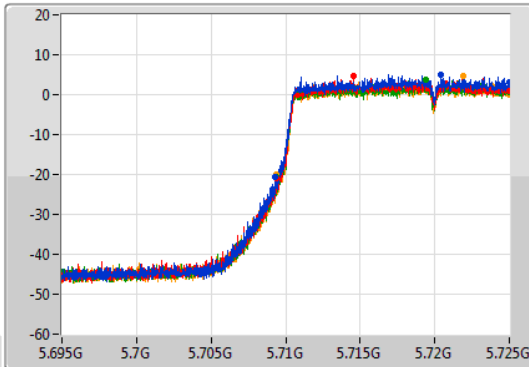
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.06M	5.68953G	5.71059G	18.951M	5.690495G	5.709445G	Inf	1
21.21M	5.68932G	5.71053G	18.921M	5.690495G	5.709415G	Inf	2
21.18M	5.68944G	5.71062G	18.951M	5.690495G	5.709445G	Inf	3
21.03M	5.68947G	5.7105G	18.921M	5.690525G	5.709445G	Inf	4

802.11ax HEW20\_Nss1,(MCS0)\_4TX

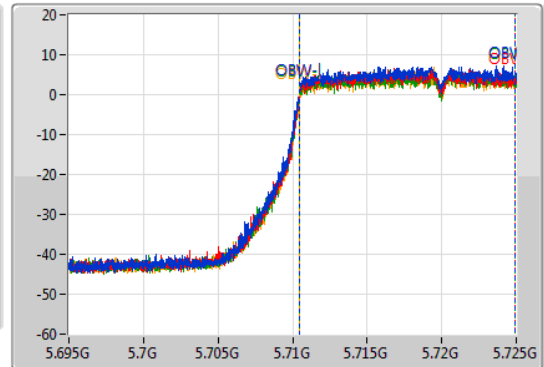
EBW

5720MHz Straddle 5.47-5.725GHz

CF: 5.71GHz  
 Span: 30MHz  
 RBW: 200kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.71GHz  
 Span: 30MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Blue line]  
 Port 2: [Red line]  
 Port 3: [Green line]  
 Port 4: [Orange line]

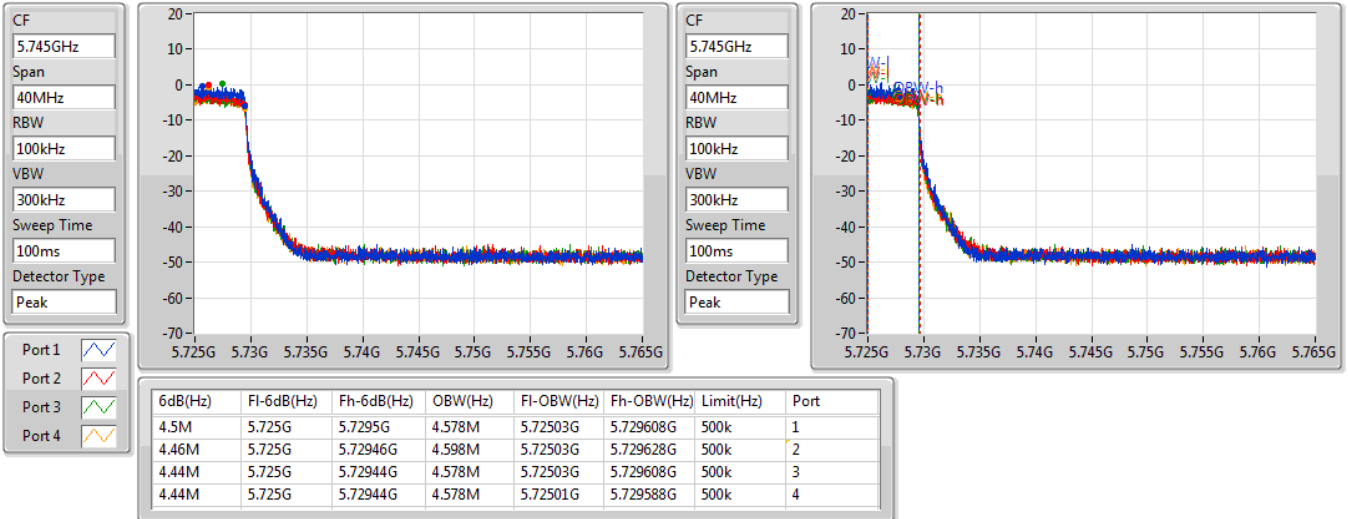
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.735M	5.709265G	5.725G	14.468M	5.71045G	5.724918G	Inf	1
15.585M	5.709415G	5.725G	14.453M	5.710465G	5.724918G	Inf	2
15.615M	5.709385G	5.725G	14.453M	5.710465G	5.724918G	Inf	3
15.6M	5.7094G	5.725G	14.468M	5.710465G	5.724933G	Inf	4



802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

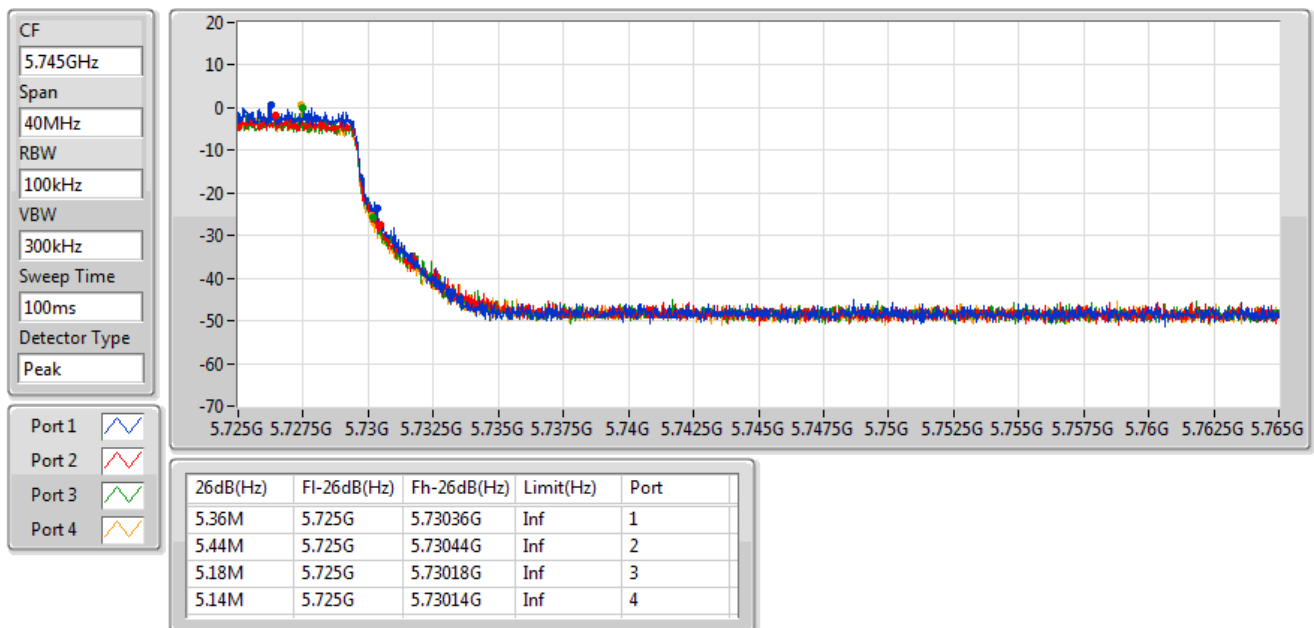
5720MHz Straddle 5.725-5.85GHz



802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5720MHz Straddle 5.725-5.85GHz

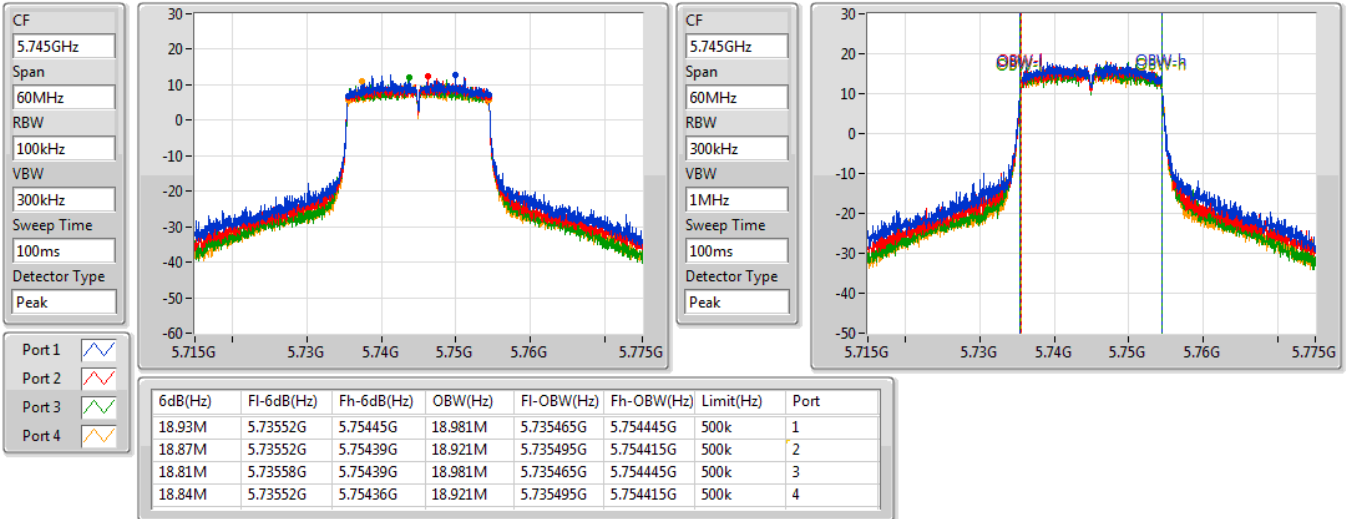




802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

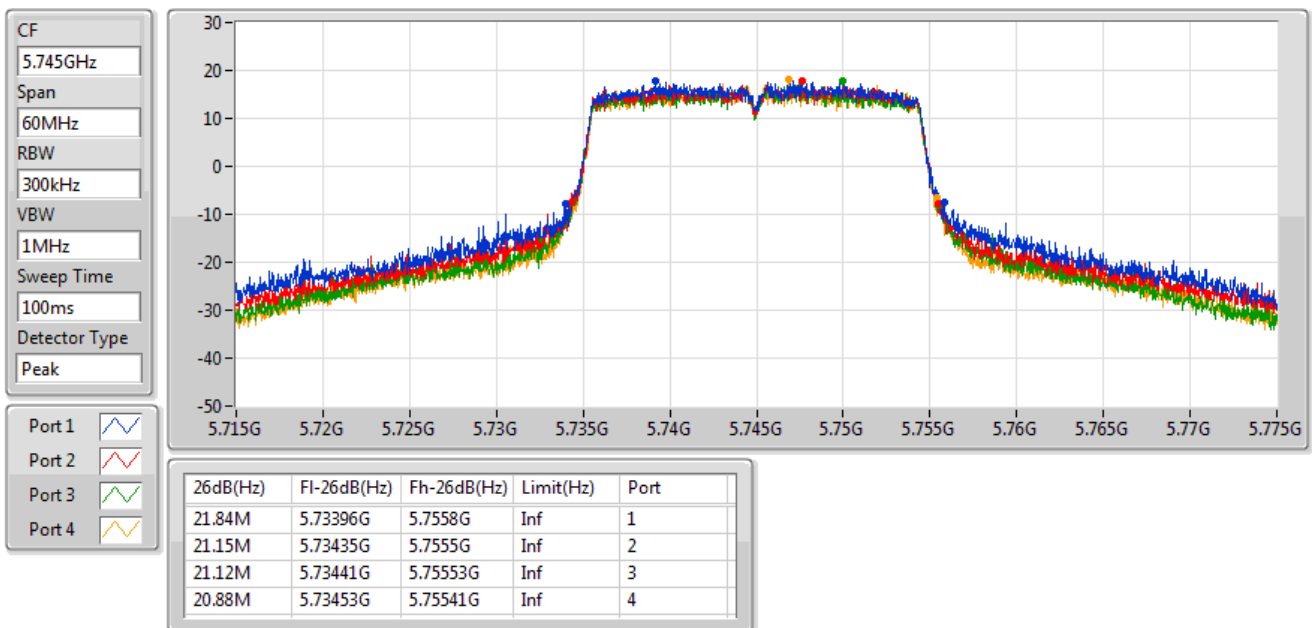
5745MHz



802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5745MHz



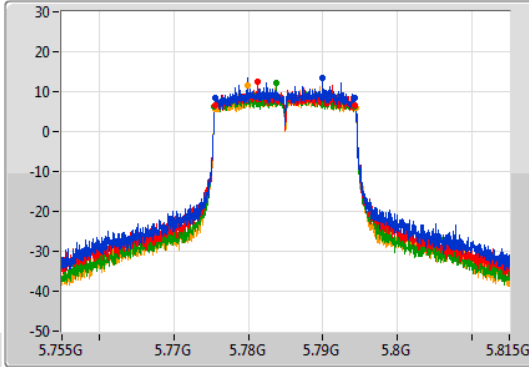


802.11ax HEW20\_Nss1,(MCS0)\_4TX

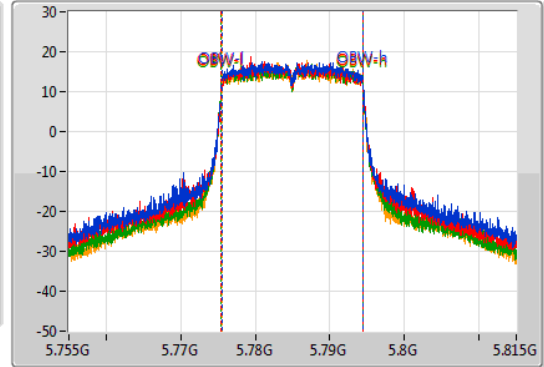
EBW

5785MHz

CF: 5.785GHz  
 Span: 60MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.785GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



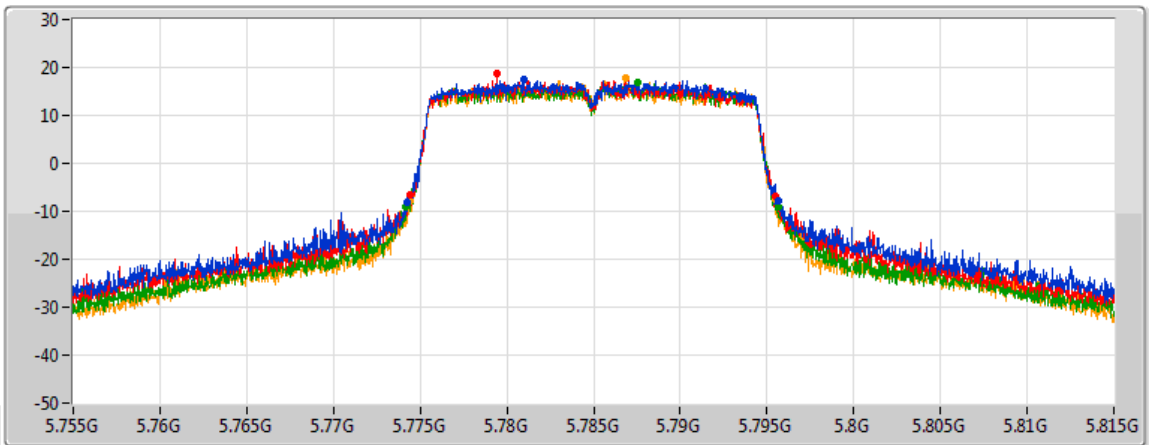
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.63M	5.77564G	5.79427G	18.921M	5.775495G	5.794415G	500k	1
18.81M	5.77552G	5.79433G	18.951M	5.775465G	5.794415G	500k	2
18.81M	5.77546G	5.79427G	18.951M	5.775465G	5.794415G	500k	3
18.93M	5.77549G	5.79442G	18.921M	5.775495G	5.794415G	500k	4

802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5785MHz

CF: 5.785GHz  
 Span: 60MHz  
 RBW: 300kHz  
 VBW: 1MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1  
 Port 2  
 Port 3  
 Port 4

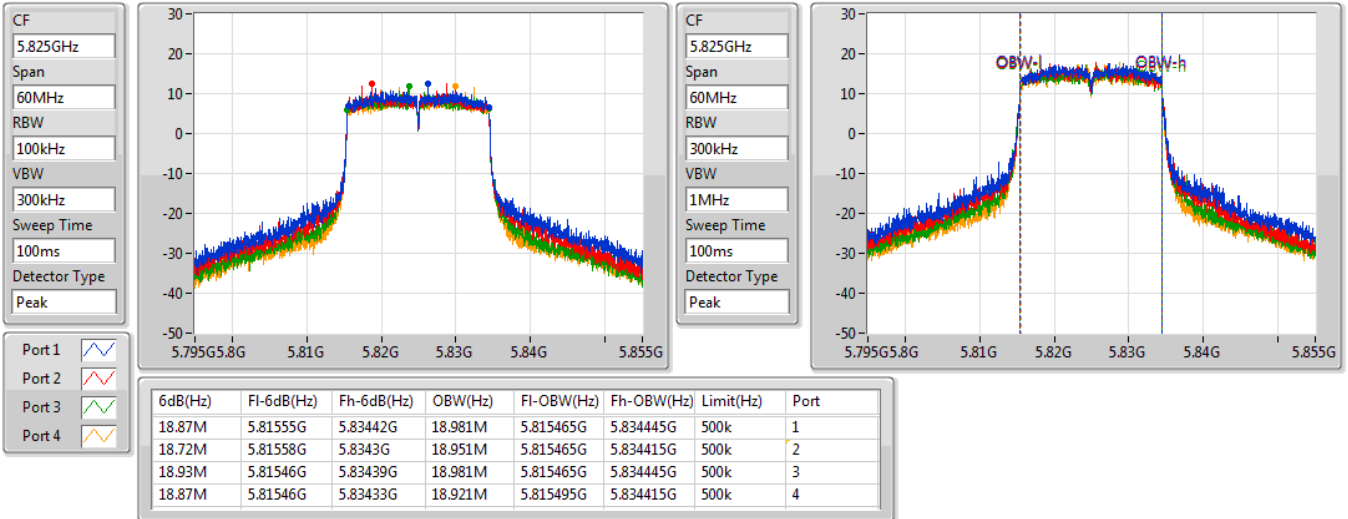
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
21.45M	5.77423G	5.79568G	Inf	1
21.09M	5.77444G	5.79553G	Inf	2
21.45M	5.7742G	5.79565G	Inf	3
21.09M	5.77441G	5.7955G	Inf	4



802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

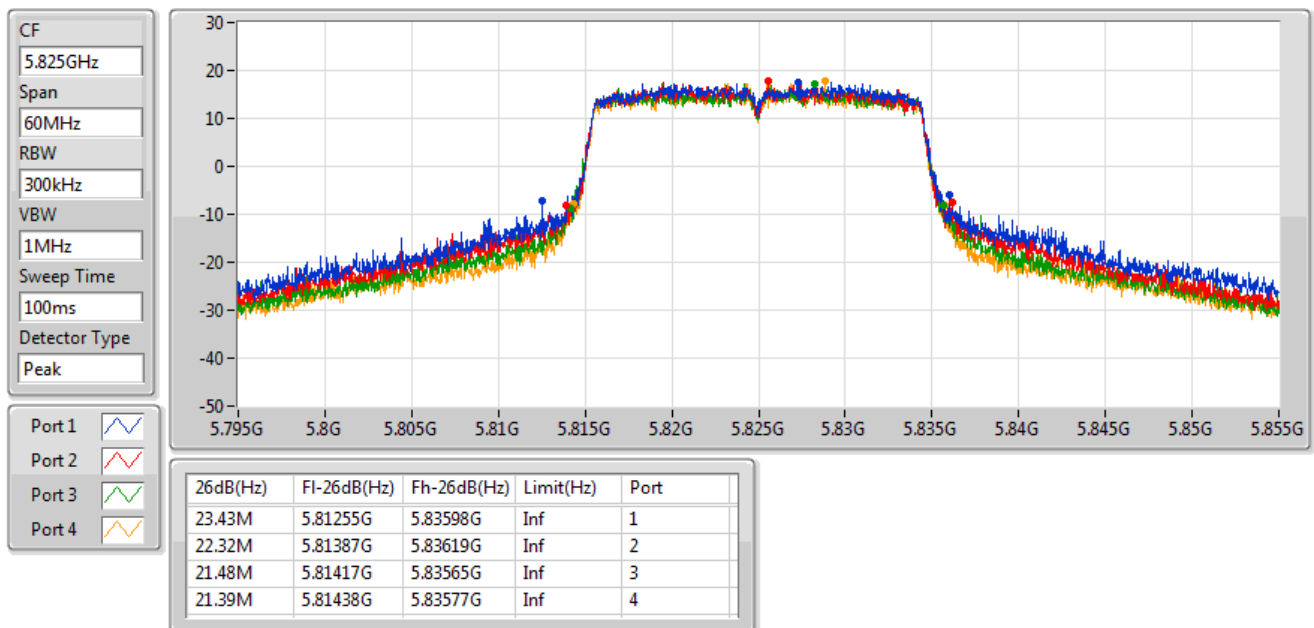
5825MHz



802.11ax HEW20\_Nss1,(MCS0)\_4TX

EBW

5825MHz



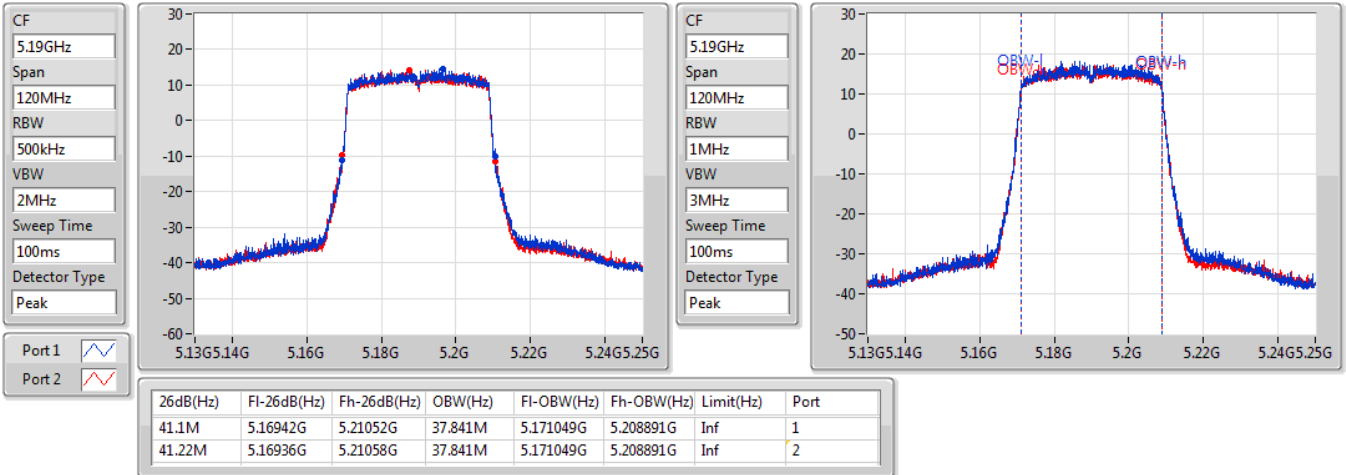




802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

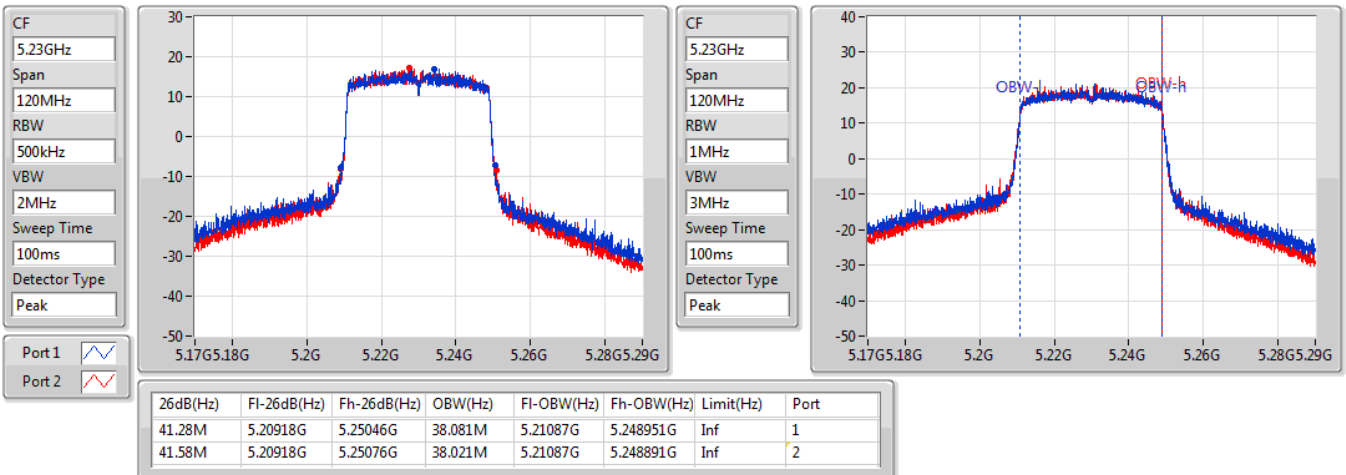
5190MHz



802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

5230MHz

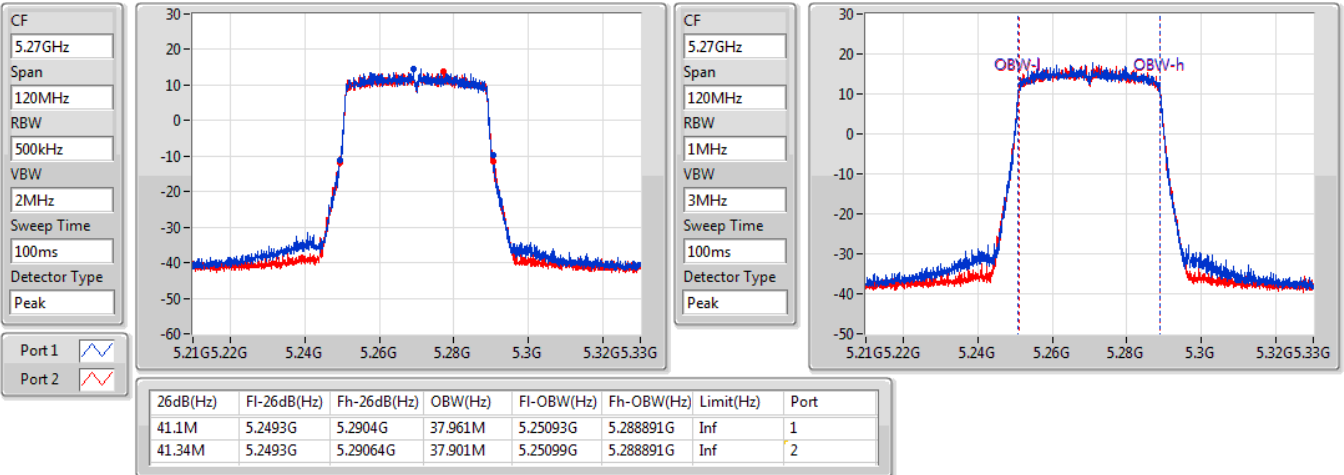




802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

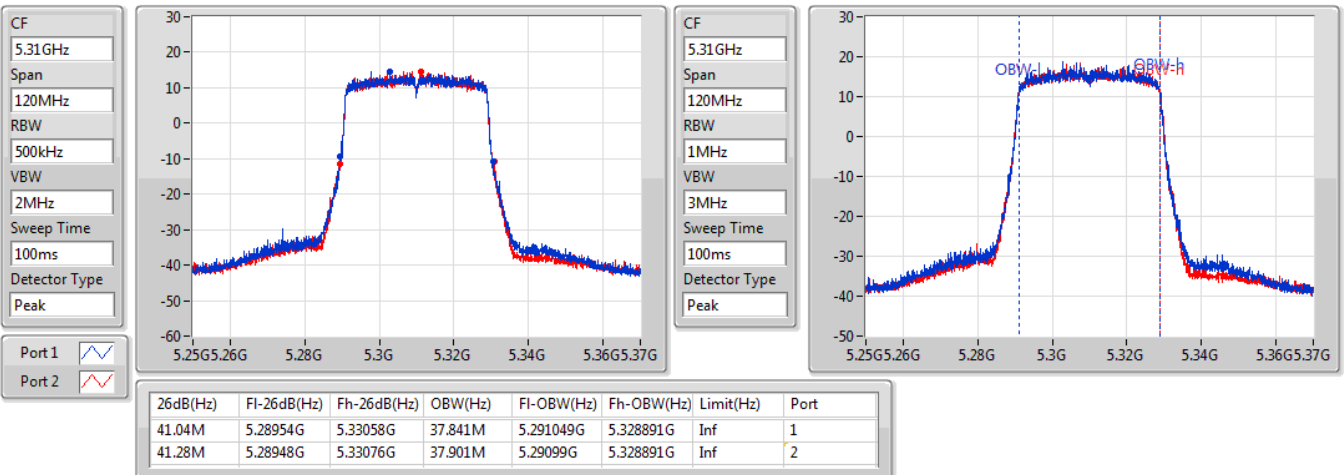
5270MHz



802.11ax HEW40\_Nss1,(MCS0)\_2TX

EBW

5310MHz



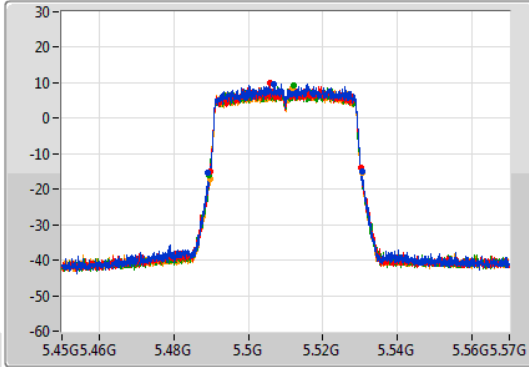


802.11ax HEW40\_Nss1,(MCS0)\_4TX

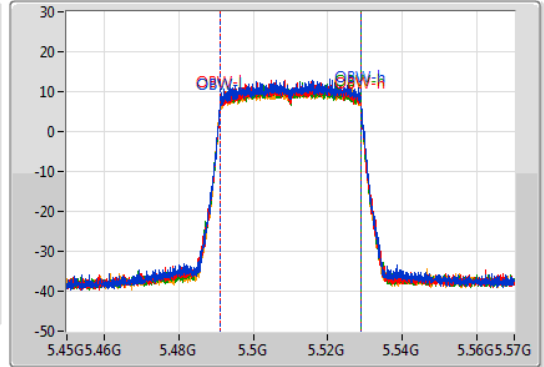
EBW

5510MHz

CF: 5.51GHz  
 Span: 120MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.51GHz  
 Span: 120MHz  
 RBW: 1MHz  
 VBW: 3MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Waveform]  
 Port 2: [Waveform]  
 Port 3: [Waveform]  
 Port 4: [Waveform]

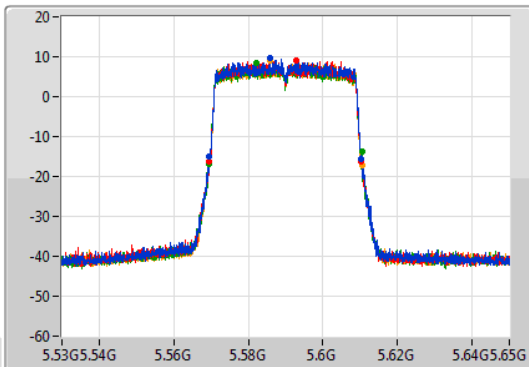
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.4M	5.48924G	5.53064G	37.901M	5.491049G	5.528951G	Inf	1
40.56M	5.48978G	5.53034G	37.901M	5.491049G	5.528951G	Inf	2
40.86M	5.4896G	5.53046G	37.961M	5.49099G	5.528951G	Inf	3
40.86M	5.48972G	5.53058G	38.021M	5.49099G	5.52901G	Inf	4

802.11ax HEW40\_Nss1,(MCS0)\_4TX

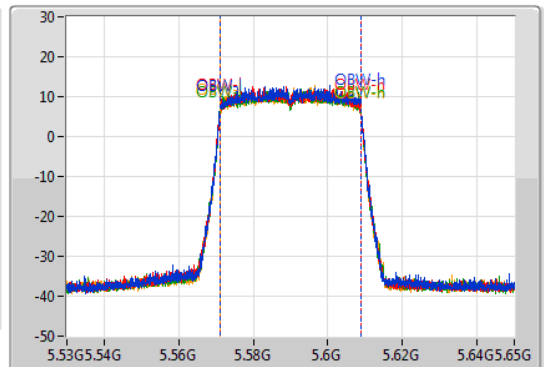
EBW

5590MHz

CF: 5.59GHz  
 Span: 120MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.59GHz  
 Span: 120MHz  
 RBW: 1MHz  
 VBW: 3MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Waveform]  
 Port 2: [Waveform]  
 Port 3: [Waveform]  
 Port 4: [Waveform]

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.92M	5.56942G	5.61034G	37.961M	5.57099G	5.608951G	Inf	1
40.86M	5.56948G	5.61034G	37.901M	5.571049G	5.608951G	Inf	2
40.98M	5.56948G	5.61046G	37.901M	5.571049G	5.608951G	Inf	3
40.86M	5.5696G	5.61046G	37.961M	5.57099G	5.608951G	Inf	4

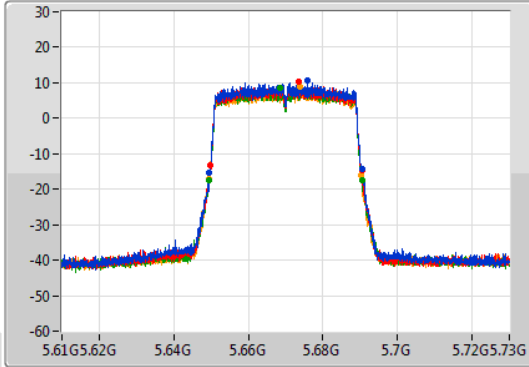


802.11ax HEW40\_Nss1,(MCS0)\_4TX

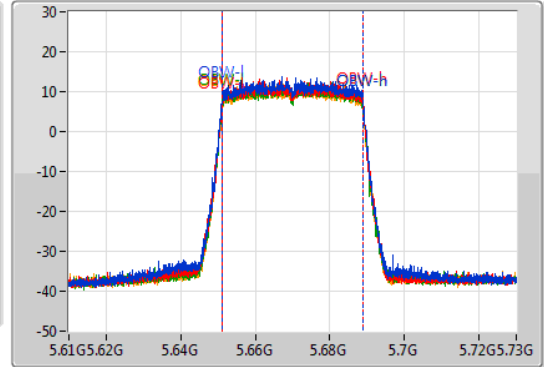
EBW

5670MHz

CF: 5.67GHz  
 Span: 120MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.67GHz  
 Span: 120MHz  
 RBW: 1MHz  
 VBW: 3MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Waveform icon]  
 Port 2: [Waveform icon]  
 Port 3: [Waveform icon]  
 Port 4: [Waveform icon]

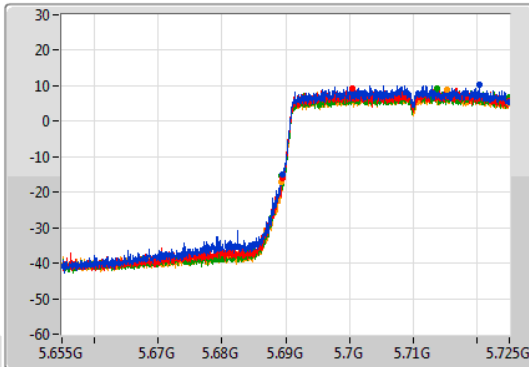
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.04M	5.64942G	5.69046G	37.961M	5.65099G	5.688951G	Inf	1
40.68M	5.64972G	5.6904G	37.961M	5.65099G	5.688951G	Inf	2
41.1M	5.64954G	5.69064G	37.961M	5.65099G	5.688951G	Inf	3
40.74M	5.6496G	5.69034G	37.961M	5.65099G	5.688951G	Inf	4

802.11ax HEW40\_Nss1,(MCS0)\_4TX

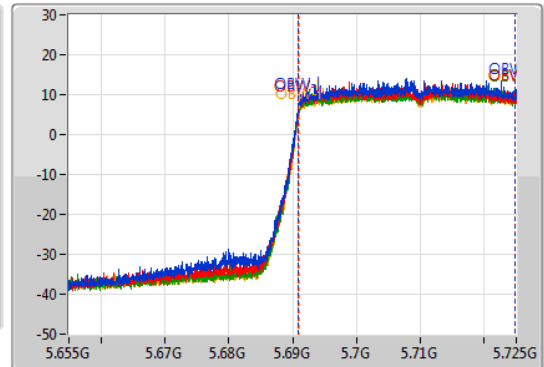
EBW

5710MHz Straddle 5.47-5.725GHz

CF: 5.69GHz  
 Span: 70MHz  
 RBW: 500kHz  
 VBW: 2MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



CF: 5.69GHz  
 Span: 70MHz  
 RBW: 1MHz  
 VBW: 3MHz  
 Sweep Time: 100ms  
 Detector Type: Peak



Port 1: [Waveform icon]  
 Port 2: [Waveform icon]  
 Port 3: [Waveform icon]  
 Port 4: [Waveform icon]

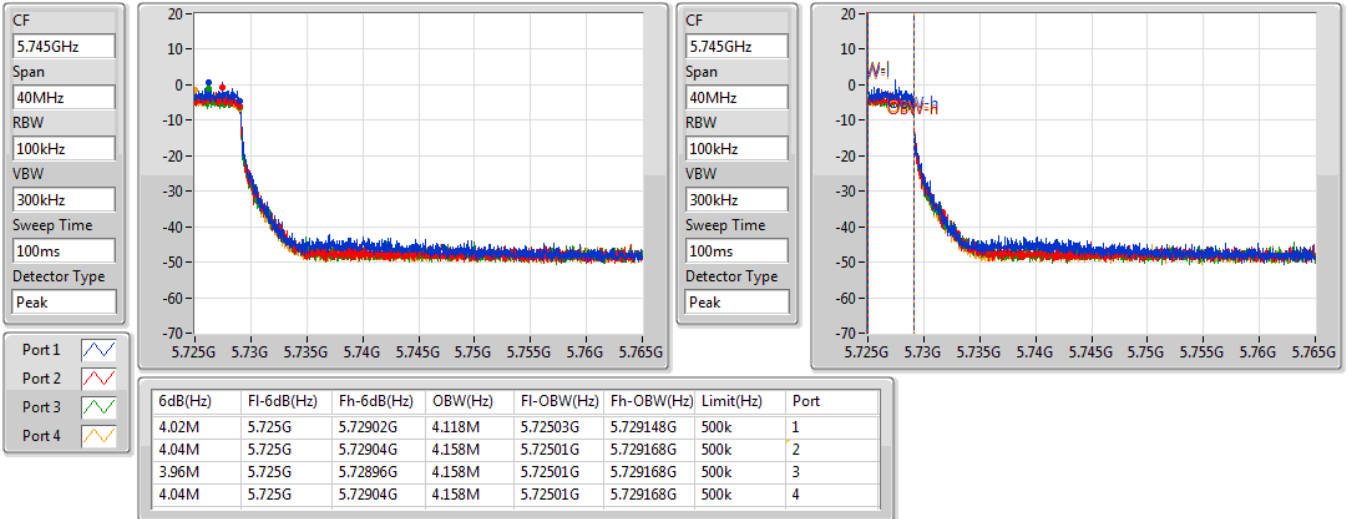
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.455M	5.689545G	5.725G	33.863M	5.690945G	5.724808G	Inf	1
35.525M	5.689475G	5.725G	33.828M	5.690945G	5.724773G	Inf	2
35.665M	5.689335G	5.725G	33.898M	5.69091G	5.724808G	Inf	3
35.665M	5.689335G	5.725G	33.828M	5.69098G	5.724808G	Inf	4



802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

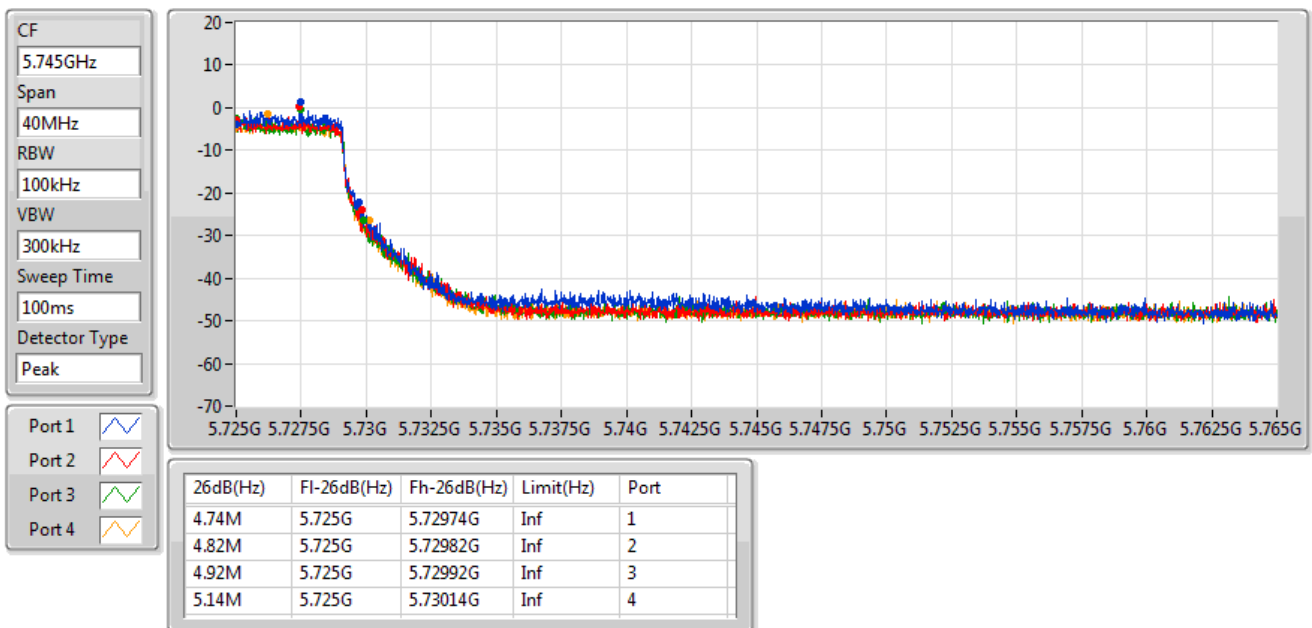
5710MHz Straddle 5.725-5.85GHz



802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5710MHz Straddle 5.725-5.85GHz



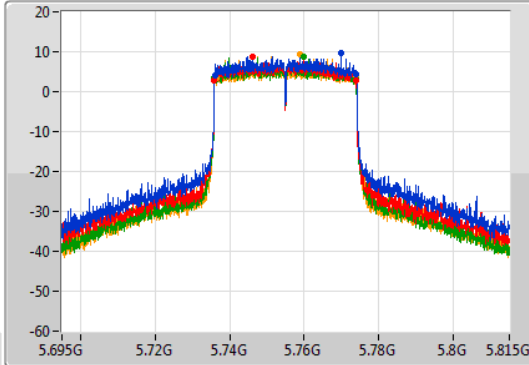


802.11ax HEW40\_Nss1,(MCS0)\_4TX

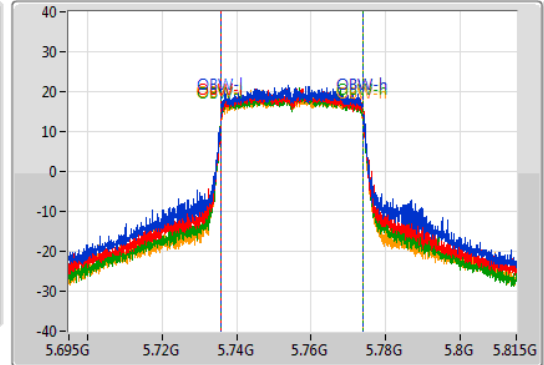
EBW

5755MHz

CF  
5.755GHz  
Span  
120MHz  
RBW  
100kHz  
VBW  
300kHz  
Sweep Time  
100ms  
Detector Type  
Peak



CF  
5.755GHz  
Span  
120MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
100ms  
Detector Type  
Peak



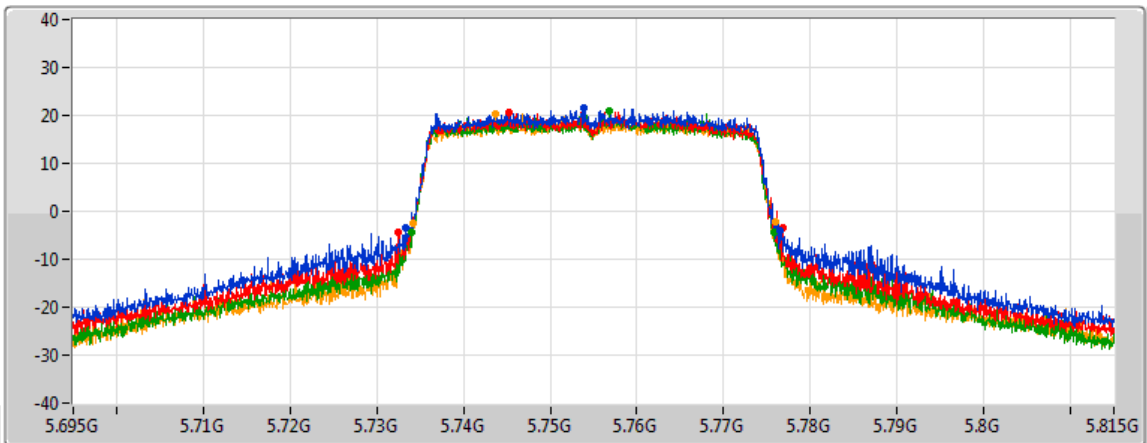
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.92M	5.73598G	5.7739G	38.141M	5.73587G	5.77401G	500k	1
38.04M	5.73592G	5.77396G	38.021M	5.73593G	5.773951G	500k	2
38.04M	5.73592G	5.77396G	38.081M	5.73587G	5.773951G	500k	3
37.56M	5.73634G	5.7739G	38.021M	5.73593G	5.773951G	500k	4

802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5755MHz

CF  
5.755GHz  
Span  
120MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
100ms  
Detector Type  
Peak



Port 1  
Port 2  
Port 3  
Port 4

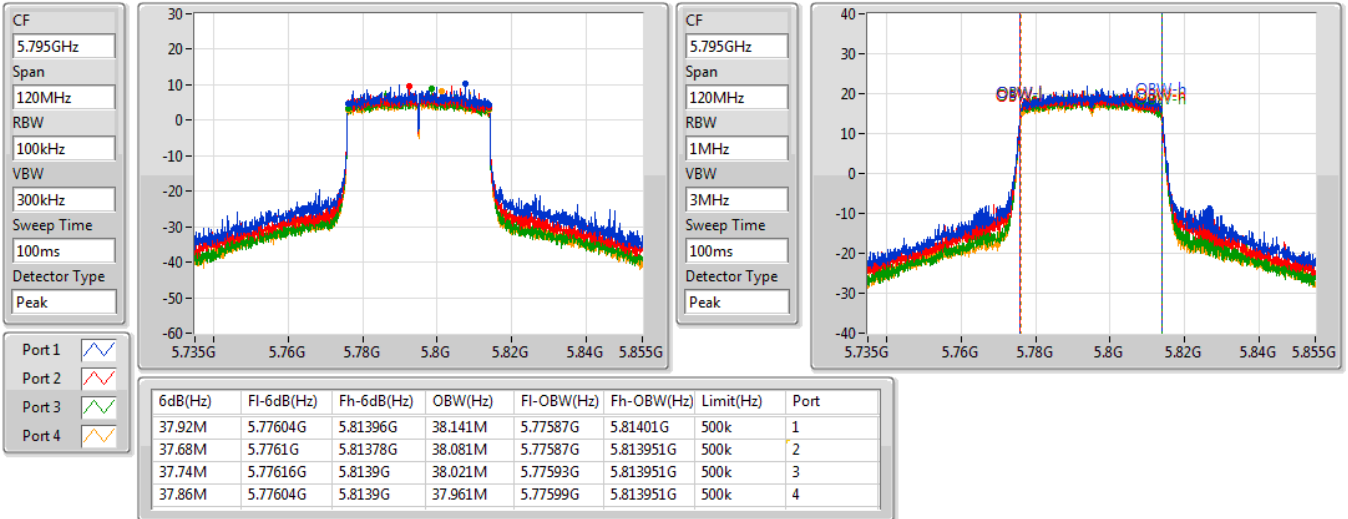
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
43.08M	5.7334G	5.77648G	Inf	1
44.34M	5.73244G	5.77678G	Inf	2
41.76M	5.73406G	5.77582G	Inf	3
41.94M	5.73412G	5.77606G	Inf	4



802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

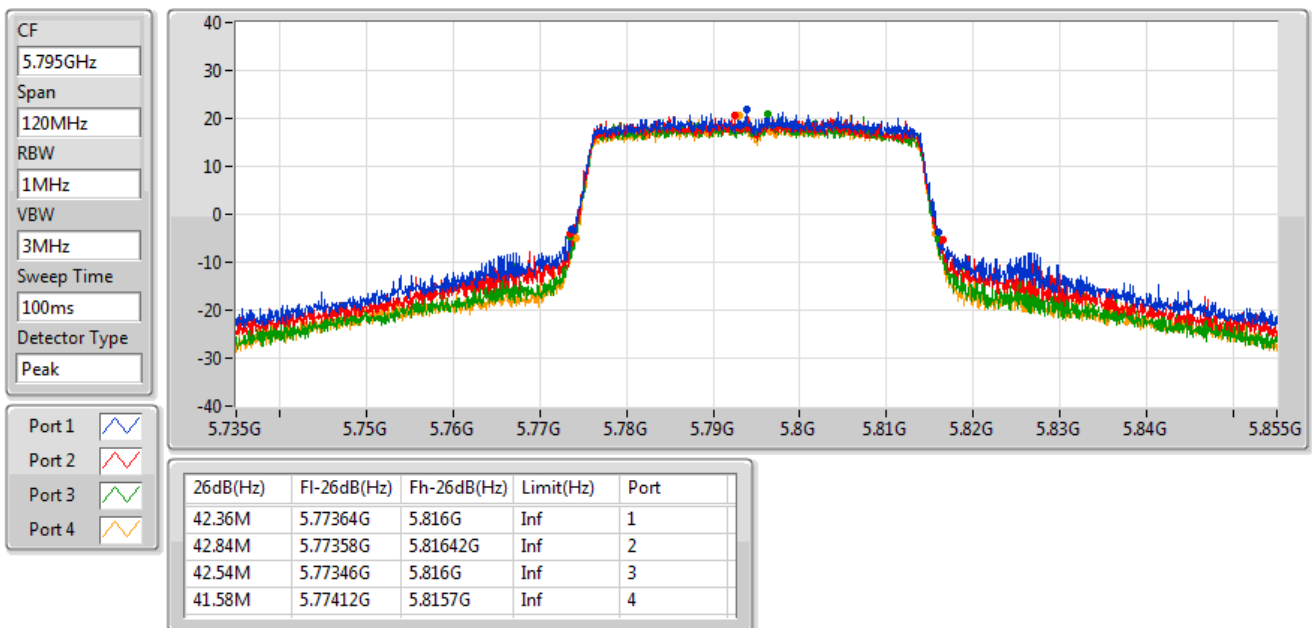
5795MHz



802.11ax HEW40\_Nss1,(MCS0)\_4TX

EBW

5795MHz

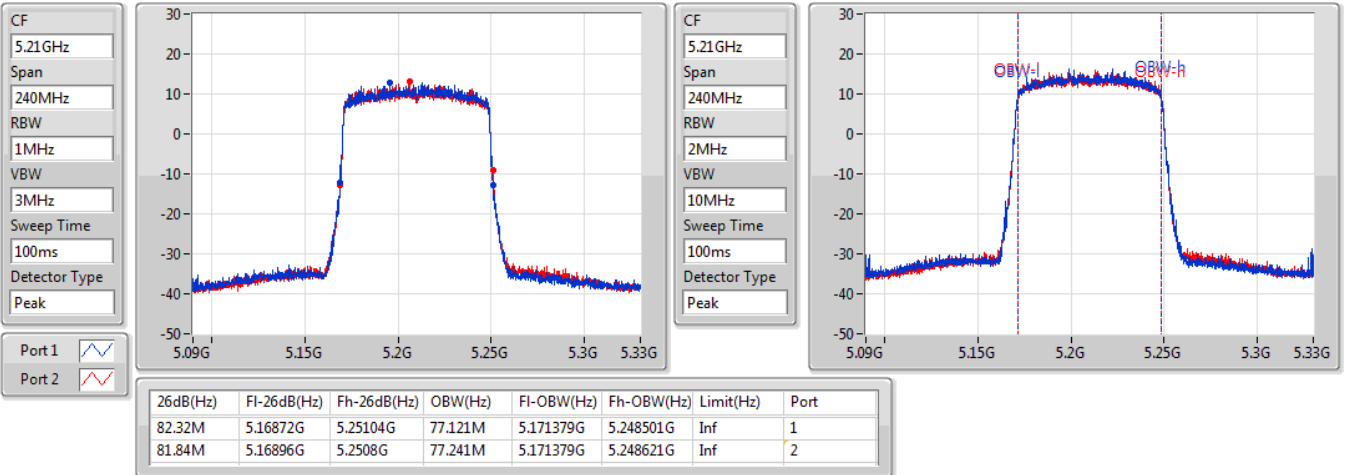




802.11ax HEW80\_Nss1,(MCS0)\_2TX

EBW

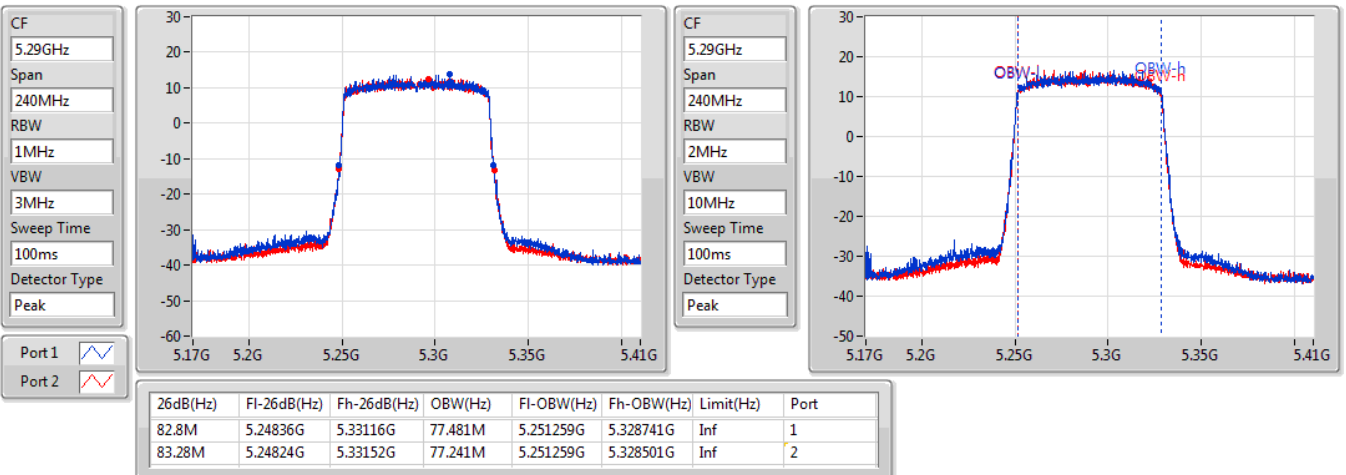
5210MHz



802.11ax HEW80\_Nss1,(MCS0)\_2TX

EBW

5290MHz



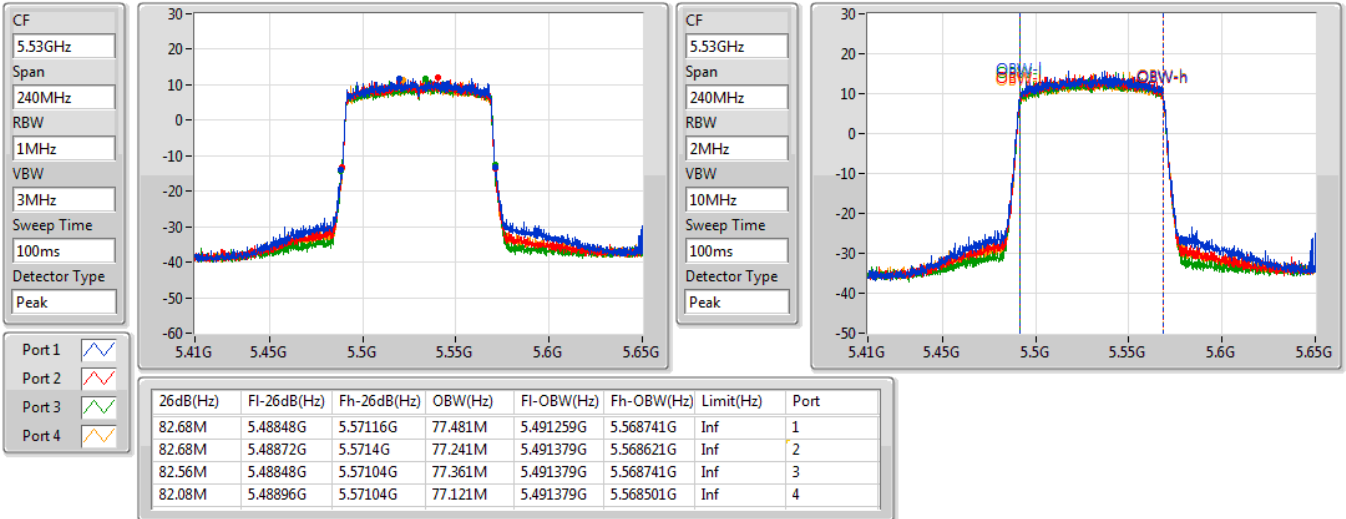




802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

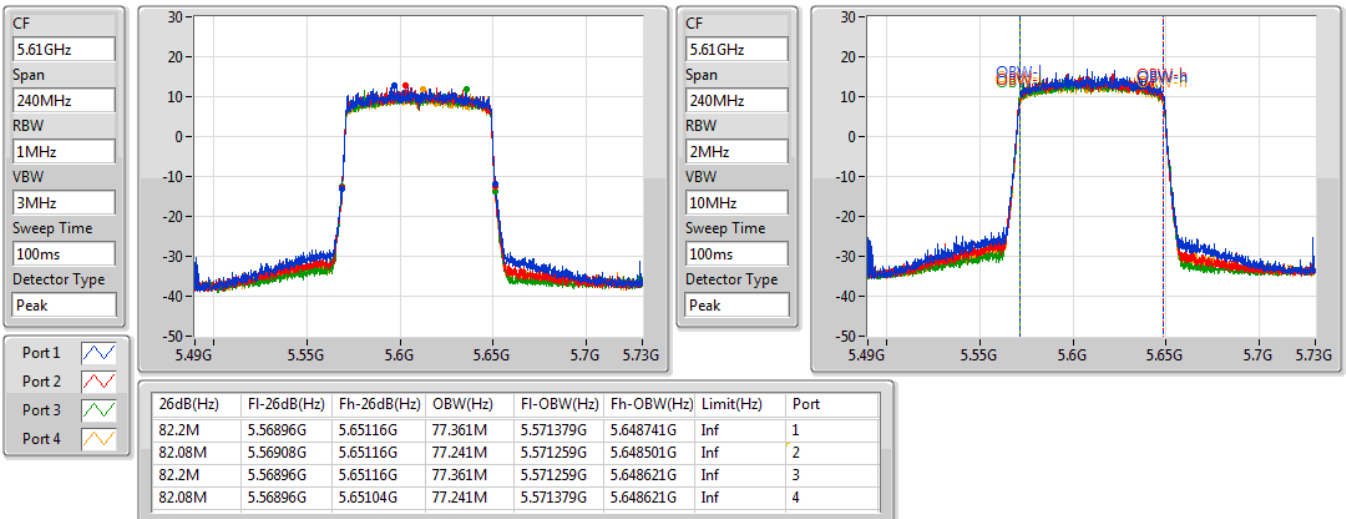
5530MHz



802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

5610MHz

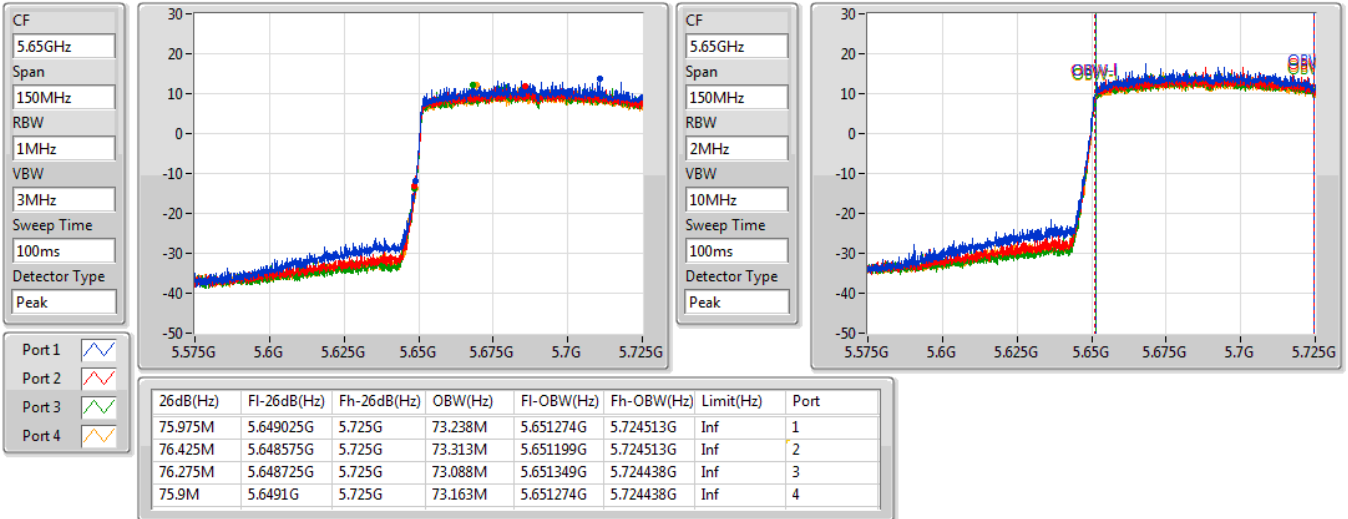




802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

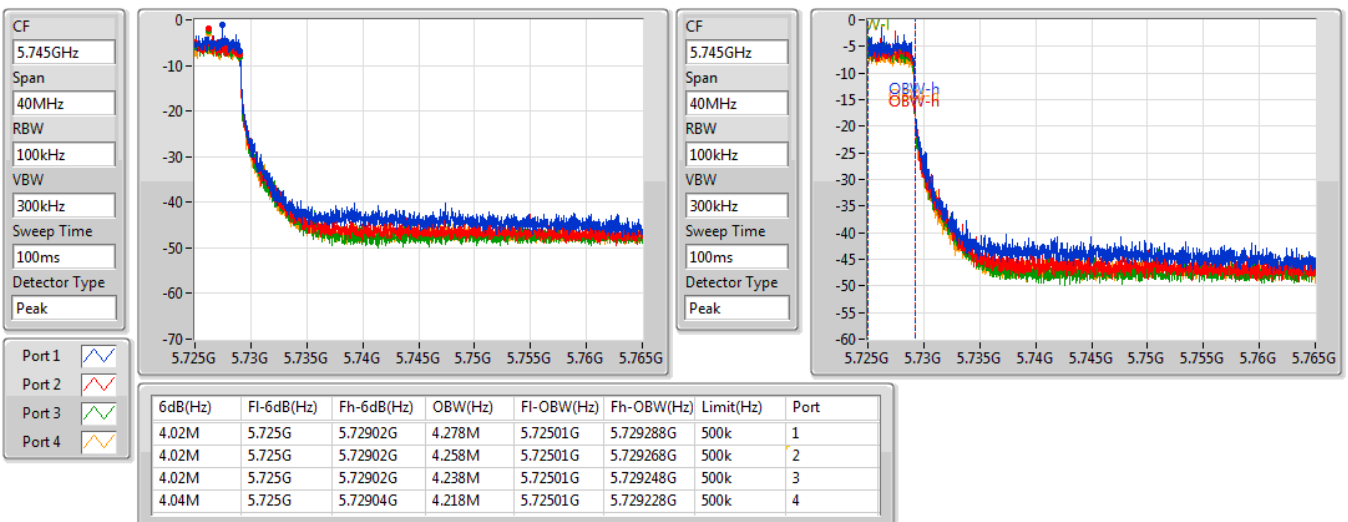
5690MHz Straddle 5.47-5.725GHz



802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

5690MHz Straddle 5.725-5.85GHz

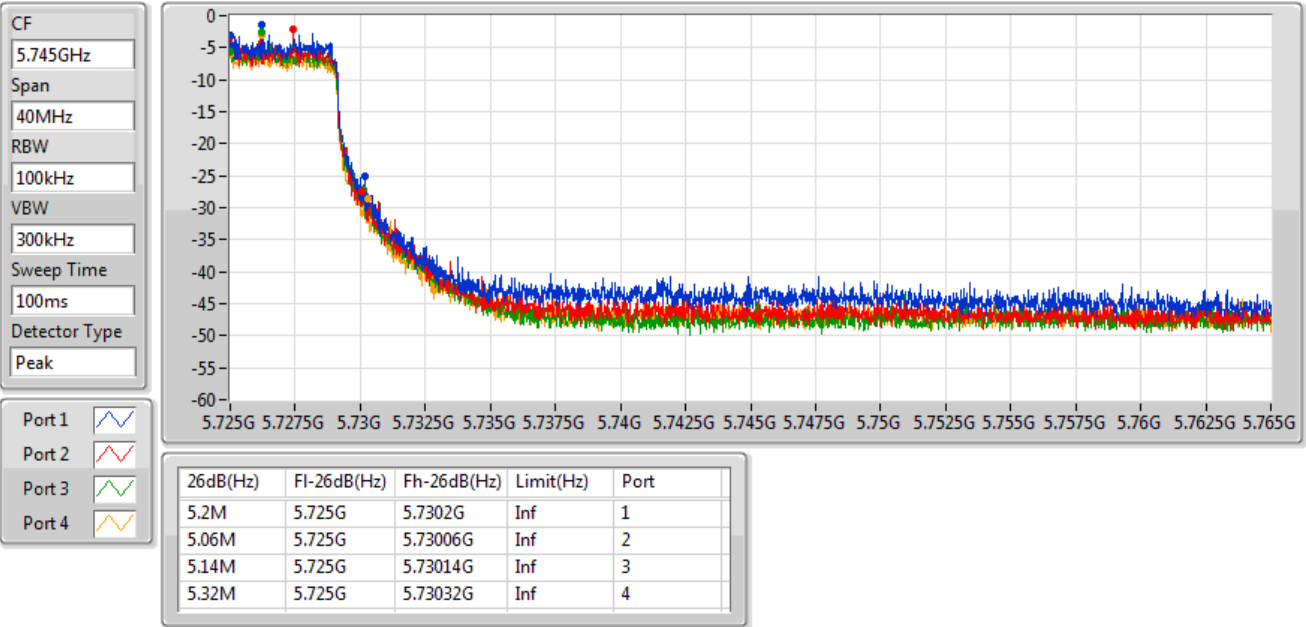




802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

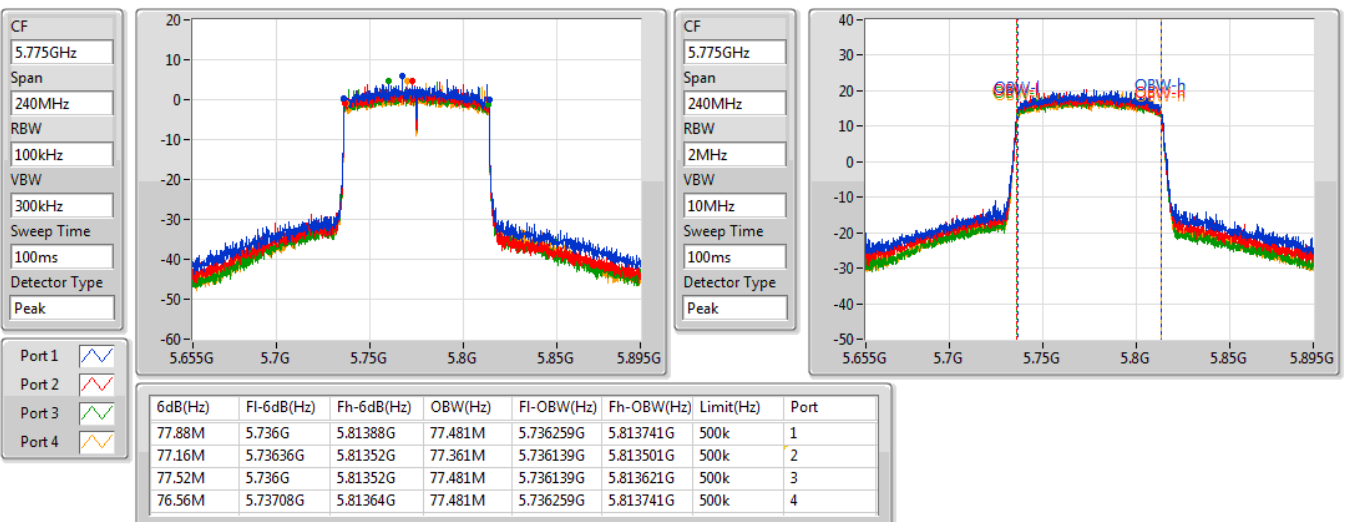
5690MHz Straddle 5.725-5.85GHz



802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

5775MHz



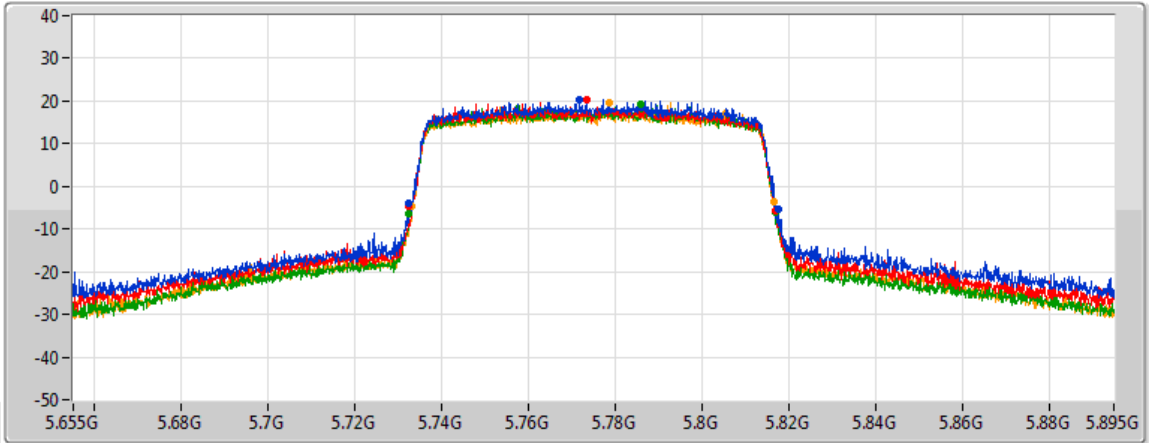


### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

EBW

5775MHz

CF  
5.775GHz  
Span  
240MHz  
RBW  
2MHz  
VBW  
10MHz  
Sweep Time  
100ms  
Detector Type  
Peak



Port 1   
Port 2   
Port 3   
Port 4

26dB(Hz)	F1-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
85.44M	5.73228G	5.81772G	Inf	1
84.72M	5.7324G	5.81712G	Inf	2
84.48M	5.7324G	5.81688G	Inf	3
83.64M	5.73312G	5.81676G	Inf	4



## Conducted Output Power(Average)

## Appendix B

Non-Beamforming

### Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	27.22	0.52723	31.22	1.32434
802.11ax HEW20_Nss1,(MCS0)_2TX	27.02	0.50350	31.02	1.26474
802.11ax HEW40_Nss1,(MCS0)_2TX	26.44	0.44055	30.44	1.10662
802.11ax HEW80_Nss1,(MCS0)_2TX	21.63	0.14555	25.63	0.36559
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_2TX	22.68	0.18535	26.75	0.47315
802.11ax HEW20_Nss1,(MCS0)_2TX	22.89	0.19454	26.96	0.49659
802.11ax HEW40_Nss1,(MCS0)_2TX	23.77	0.23823	27.84	0.60814
802.11ax HEW80_Nss1,(MCS0)_2TX	22.55	0.17989	26.62	0.45920
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	18.62	0.07278	23.82	0.24099
802.11ax HEW20_Nss1,(MCS0)_4TX	18.87	0.07709	24.07	0.25527
802.11ax HEW40_Nss1,(MCS0)_4TX	21.72	0.14859	26.92	0.49204
802.11ax HEW80_Nss1,(MCS0)_4TX	23.71	0.23496	28.91	0.77804
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	29.66	0.92470	35.31	3.39625
802.11ax HEW20_Nss1,(MCS0)_4TX	29.74	0.94189	35.39	3.45939
802.11ax HEW40_Nss1,(MCS0)_4TX	29.84	0.96383	35.49	3.53997
802.11ax HEW80_Nss1,(MCS0)_4TX	28.06	0.63973	33.71	2.34963



## Conducted Output Power(Average)

## Appendix B

### Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.00	23.26	23.02			26.15	30.00	30.15	36.00
5200MHz	Pass	4.00	24.31	24.11			27.22	30.00	31.22	36.00
5240MHz	Pass	4.00	23.82	24.26			27.06	30.00	31.06	36.00
5260MHz	Pass	4.07	19.45	19.49			22.48	24.00	26.55	30.00
5300MHz	Pass	4.07	19.72	19.61			22.68	24.00	26.75	30.00
5320MHz	Pass	4.07	19.38	19.31			22.36	24.00	26.43	30.00
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	5.20	12.87	12.53	12.05	12.21	18.45	23.86	23.65	29.86
5580MHz	Pass	5.20	12.79	12.71	12.41	12.17	18.55	23.85	23.75	29.85
5700MHz	Pass	5.20	13.35	12.66	12.24	12.05	18.62	23.85	23.82	29.85
5720MHz Straddle 5.47-5.725GHz	Pass	5.20	12.74	11.82	11.32	11.08	17.81	22.63	23.01	28.63
5720MHz Straddle 5.725-5.85GHz	Pass	5.65	6.08	5.67	5.2	4.71	11.47	30.00	17.12	36.00
5745MHz	Pass	5.65	24.32	23.72	23.18	23.09	29.63	30.00	35.28	36.00
5785MHz	Pass	5.65	24.39	23.76	23.16	23.05	29.64	30.00	35.29	36.00
5825MHz	Pass	5.65	24.47	23.66	23.16	23.14	29.66	30.00	35.31	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	4.00	22.51	22.42			25.48	30.00	29.48	36.00
5200MHz	Pass	4.00	24.21	23.81			27.02	30.00	31.02	36.00
5240MHz	Pass	4.00	23.67	23.93			26.81	30.00	30.81	36.00
5260MHz	Pass	4.07	19.77	19.65			22.72	24.00	26.79	30.00
5300MHz	Pass	4.07	19.89	19.86			22.89	24.00	26.96	30.00
5320MHz	Pass	4.07	19.61	19.55			22.59	24.00	26.66	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	5.20	13.29	13.01	12.46	12.6	18.87	24.00	24.07	30.00
5580MHz	Pass	5.20	13.05	12.94	12.56	12.62	18.82	24.00	24.02	30.00
5700MHz	Pass	5.20	13.61	12.79	12.42	12.17	18.80	24.00	24.00	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	5.20	12.67	11.88	11.35	11.11	17.82	22.93	23.02	28.93
5720MHz Straddle 5.725-5.85GHz	Pass	5.65	7.29	5.96	5.51	5.68	12.19	30.00	17.84	36.00
5745MHz	Pass	5.65	24.39	23.96	23.21	23.15	29.73	30.00	35.38	36.00
5785MHz	Pass	5.65	24.47	23.85	23.25	23.16	29.74	30.00	35.39	36.00
5825MHz	Pass	5.65	24.43	23.75	23.27	23.22	29.72	30.00	35.37	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	4.00	20.94	20.56			23.76	30.00	27.76	36.00
5230MHz	Pass	4.00	23.35	23.51			26.44	30.00	30.44	36.00
5270MHz	Pass	4.07	20.66	20.48			23.58	24.00	27.65	30.00
5310MHz	Pass	4.07	20.77	20.75			23.77	24.00	27.84	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	5.20	16.01	15.56	15.17	14.91	21.45	24.00	26.65	30.00
5590MHz	Pass	5.20	15.75	15.58	15.21	15.12	21.44	24.00	26.64	30.00
5670MHz	Pass	5.20	16.51	15.74	15.35	15.05	21.72	24.00	26.92	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	5.20	16.41	15.64	14.98	14.88	21.54	24.00	26.74	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	5.65	6.22	5.02	4.6	4.81	11.23	30.00	16.88	36.00
5755MHz	Pass	5.65	24.71	23.9	23.33	23.18	29.84	30.00	35.49	36.00
5795MHz	Pass	5.65	24.51	23.65	23.08	22.95	29.61	30.00	35.26	36.00



## Conducted Output Power(Average)

## Appendix B

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	4.00	18.71	18.53			21.63	30.00	25.63	36.00
5290MHz	Pass	4.07	19.56	19.51			22.55	24.00	26.62	30.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	5.20	17.81	17.62	17.05	17.12	23.43	24.00	28.63	30.00
5610MHz	Pass	5.20	18.16	17.85	17.41	17.12	23.67	24.00	28.87	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	5.20	18.44	17.78	17.27	17.14	23.71	24.00	28.91	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	5.65	4.34	3.54	3.13	2.73	9.50	30.00	15.15	36.00
5775MHz	Pass	5.65	22.89	22.11	21.57	21.43	28.06	30.00	33.71	36.00

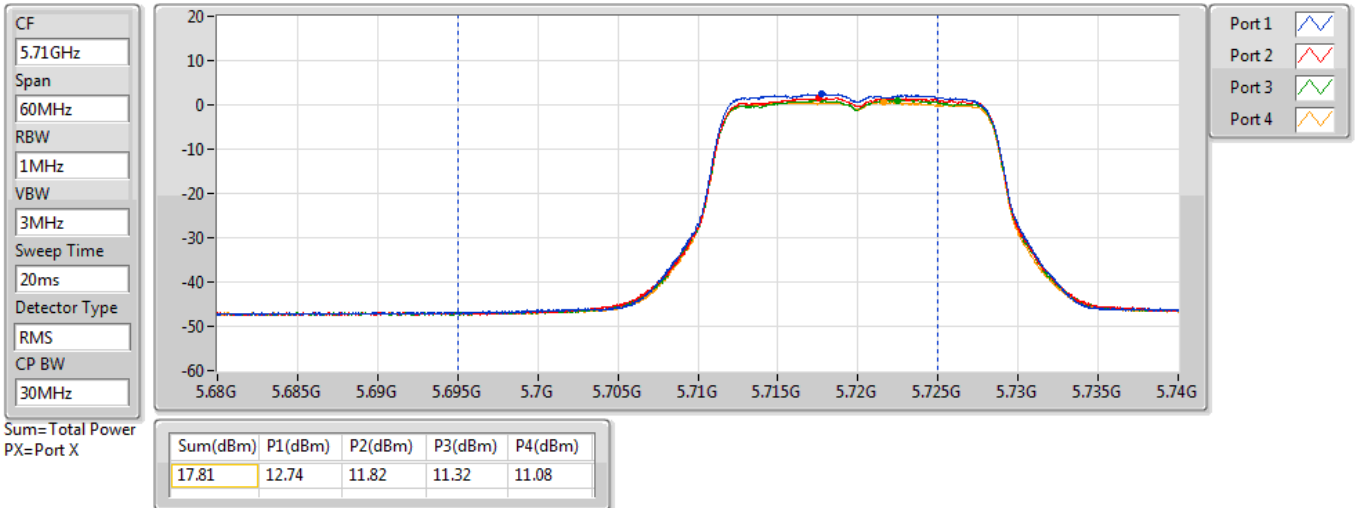
DG = Directional Gain; Port X = Port X output power



### 802.11a\_Nss1,(6Mbps)\_4TX

AV Power

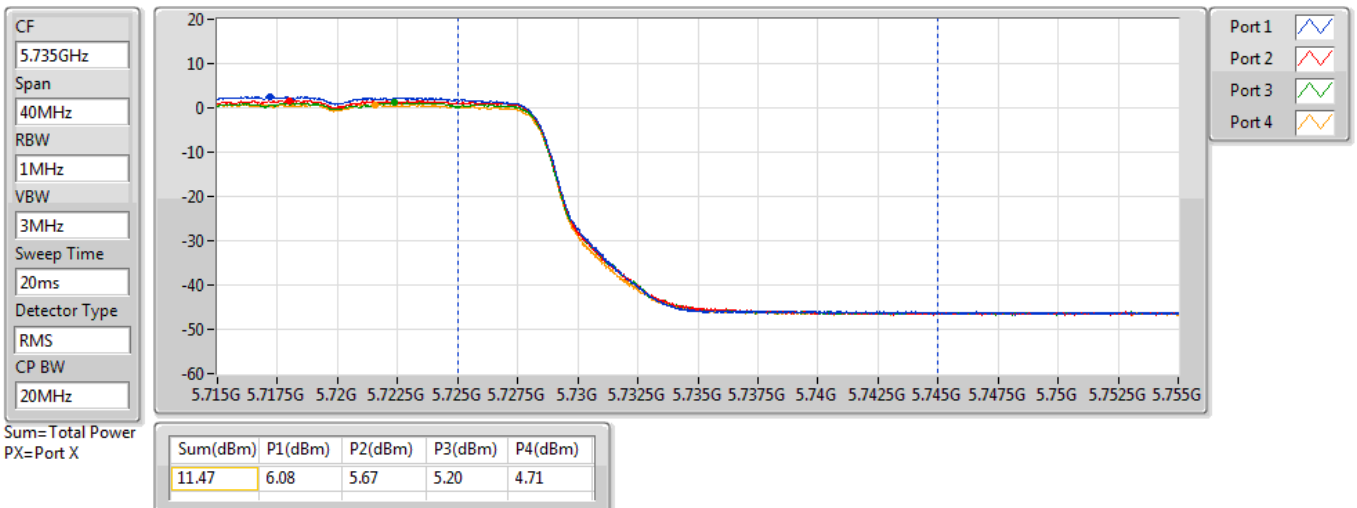
#### 5720MHz Straddle 5.47-5.725GHz\_TnomVnom



### 802.11a\_Nss1,(6Mbps)\_4TX

AV Power

#### 5720MHz Straddle 5.725-5.85GHz\_TnomVnom



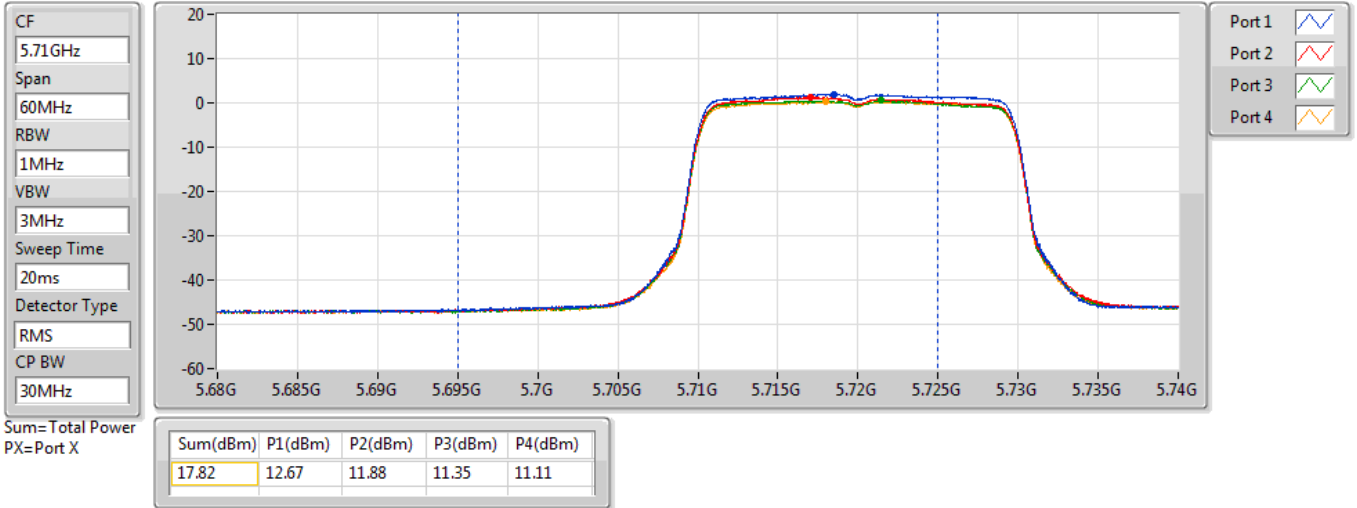




802.11ax HEW20\_Nss1,(MCS0)\_4TX

AV Power

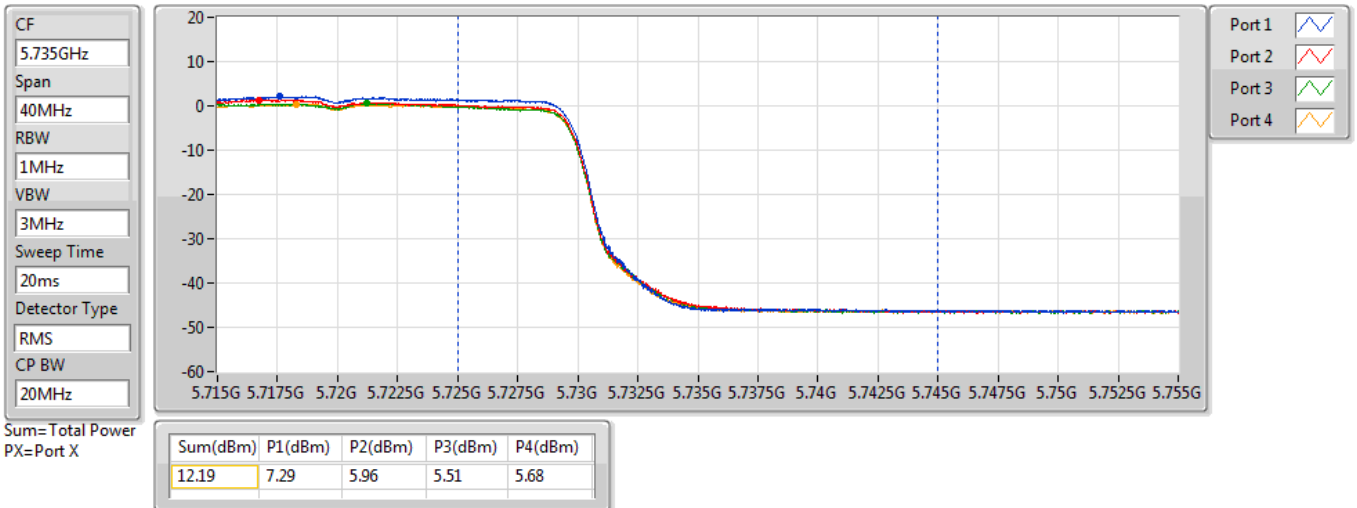
5720MHz Straddle 5.47-5.725GHz\_TnomVnom



802.11ax HEW20\_Nss1,(MCS0)\_4TX

AV Power

5720MHz Straddle 5.725-5.85GHz\_TnomVnom





802.11ax HEW40\_Nss1,(MCS0)\_4TX

AV Power

5710MHz Straddle 5.47-5.725GHz\_TnomVnom

CF  
5.69GHz

Span  
140MHz

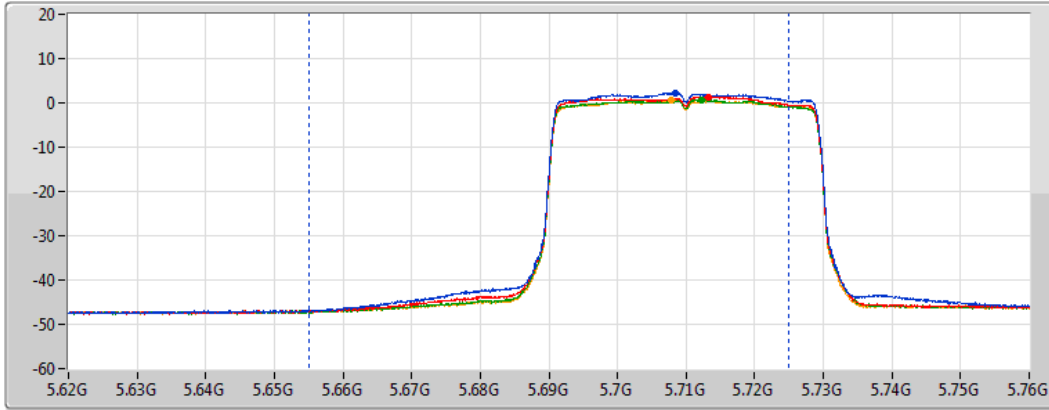
RBW  
1MHz

VBW  
3MHz

Sweep Time  
20ms

Detector Type  
RMS

CP BW  
70MHz



Port 1

Port 2

Port 3

Port 4

Sum= Total Power  
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
21.54	16.41	15.64	14.98	14.88

802.11ax HEW40\_Nss1,(MCS0)\_4TX

AV Power

5710MHz Straddle 5.725-5.85GHz\_TnomVnom

CF  
5.735GHz

Span  
40MHz

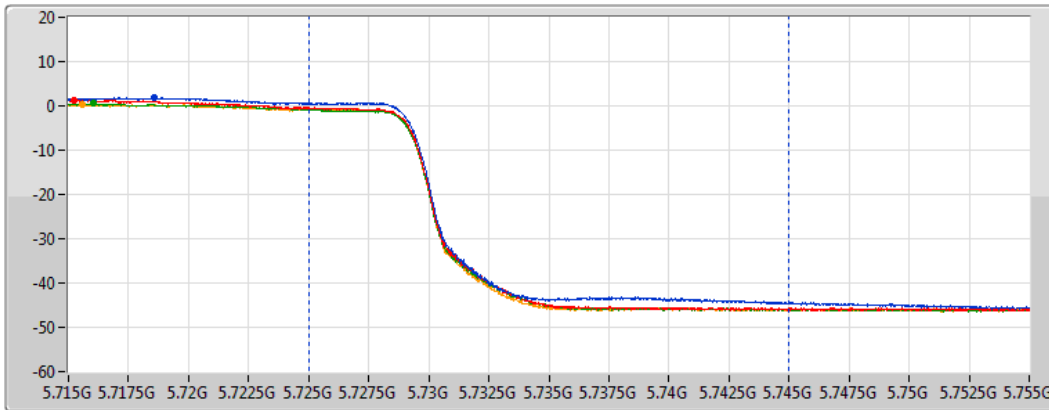
RBW  
1MHz

VBW  
3MHz

Sweep Time  
20ms

Detector Type  
RMS

CP BW  
20MHz



Port 1

Port 2

Port 3

Port 4

Sum= Total Power  
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
11.23	6.22	5.02	4.60	4.81

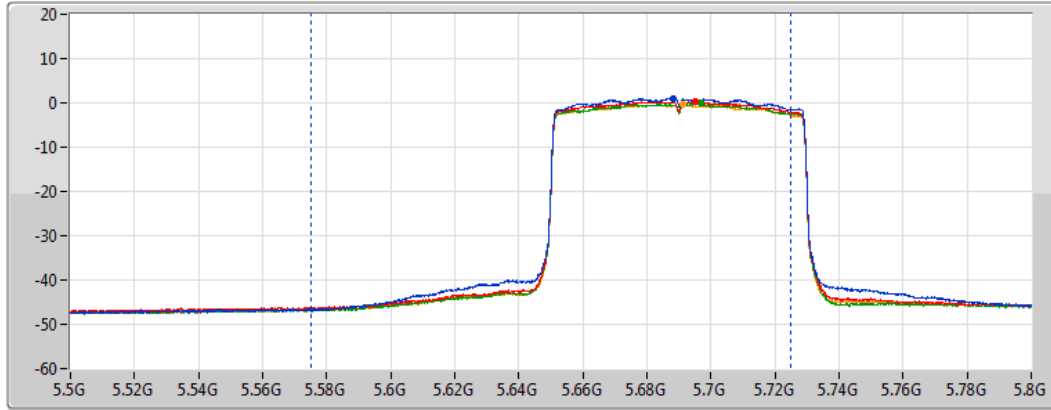


### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

AV Power

#### 5690MHz Straddle 5.47-5.725GHz\_TnomVnom

CF  
5.65GHz  
Span  
300MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS  
CP BW  
150MHz



Port 1  
Port 2  
Port 3  
Port 4

Sum= Total Power  
PX=Port X

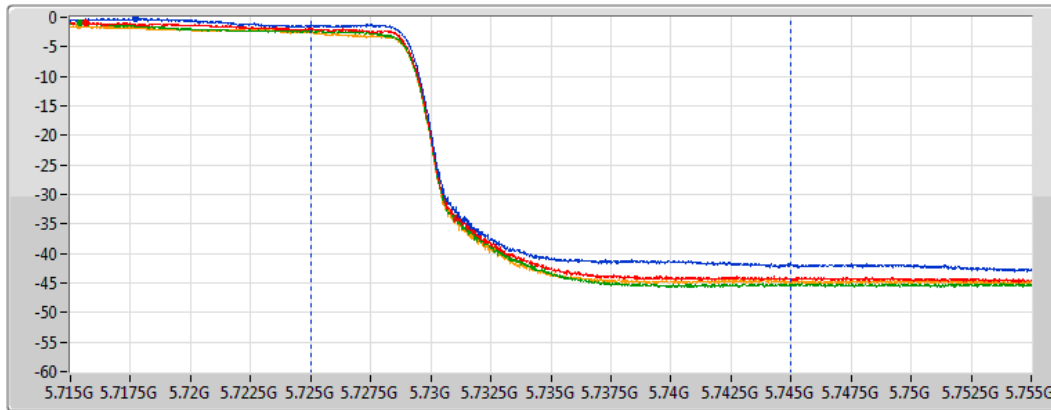
Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
23.71	18.44	17.78	17.27	17.14

### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

AV Power

#### 5690MHz Straddle 5.725-5.85GHz\_TnomVnom

CF  
5.735GHz  
Span  
40MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
20ms  
Detector Type  
RMS  
CP BW  
20MHz



Port 1  
Port 2  
Port 3  
Port 4

Sum= Total Power  
PX=Port X

Sum(dBm)	P1(dBm)	P2(dBm)	P3(dBm)	P4(dBm)
9.50	4.34	3.54	3.13	2.73



## Conducted Output Power(Average)

## Appendix B

Beamforming

### Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	24.01	0.25177	31.02	1.26474
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	23.43	0.22029	30.44	1.10662
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	18.62	0.07278	25.63	0.36559
5.25-5.35GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	19.88	0.09727	26.96	0.49659
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	20.76	0.11912	27.84	0.60814
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	19.54	0.08995	26.62	0.45920
5.47-5.725GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	12.85	0.01928	24.00	0.25119
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	15.70	0.03715	26.85	0.48417
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	17.69	0.05875	28.84	0.76560
5.725-5.85GHz	-	-	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	23.72	0.23550	35.12	3.25087
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	23.82	0.24099	35.22	3.32660
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	22.04	0.15996	33.44	2.20800

### Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.01	19.5	19.41			22.47	28.99	29.48	36.00
5200MHz	Pass	7.01	21.2	20.8			24.01	28.99	31.02	36.00
5240MHz	Pass	7.01	20.66	20.92			23.80	28.99	30.81	36.00
5260MHz	Pass	7.08	16.76	16.64			19.71	22.92	26.79	30.00
5300MHz	Pass	7.08	16.88	16.85			19.88	22.92	26.96	30.00
5320MHz	Pass	7.08	16.6	16.54			19.58	22.92	26.66	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	11.15	7.27	6.99	6.44	6.58	12.85	18.85	24.00	30.00
5580MHz	Pass	11.15	7.03	6.92	6.54	6.6	12.80	18.85	23.95	30.00
5700MHz	Pass	11.15	7.59	6.77	6.4	6.15	12.78	18.85	23.93	30.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.15	6.65	5.86	5.33	5.09	11.80	18.85	22.95	30.00
5720MHz Straddle 5.725-5.85GHz	Pass	11.40	1.27	-0.06	-0.51	-0.34	6.17	24.60	17.57	36.00
5745MHz	Pass	11.40	18.37	17.94	17.19	17.13	23.71	24.60	35.11	36.00
5785MHz	Pass	11.40	18.45	17.83	17.23	17.14	23.72	24.60	35.12	36.00
5825MHz	Pass	11.40	18.41	17.73	17.25	17.2	23.70	24.60	35.10	36.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.01	17.93	17.55			20.75	28.99	27.76	36.00
5230MHz	Pass	7.01	20.34	20.5			23.43	28.99	30.44	36.00
5270MHz	Pass	7.08	17.65	17.47			20.57	22.92	27.65	30.00
5310MHz	Pass	7.08	17.76	17.74			20.76	22.92	27.84	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5510MHz	Pass	11.15	9.99	9.54	9.15	8.89	15.43	18.85	26.58	30.00
5590MHz	Pass	11.15	9.73	9.56	9.19	9.1	15.42	18.85	26.57	30.00



**Conducted Output Power(Average)**

**Appendix B**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5670MHz	Pass	11.15	10.49	9.72	9.33	9.03	15.70	18.85	26.85	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	11.15	10.39	9.62	8.96	8.86	15.52	18.85	26.67	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	11.40	0.2	-1	-1.42	-1.21	5.21	24.60	16.61	36.00
5755MHz	Pass	11.40	18.69	17.88	17.31	17.16	23.82	24.60	35.22	36.00
5795MHz	Pass	11.40	18.49	17.63	17.06	16.93	23.59	24.60	34.99	36.00
802.11ax HEW80-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7.01	15.7	15.52			18.62	28.99	25.63	36.00
5290MHz	Pass	7.08	16.55	16.5			19.54	22.92	26.62	30.00
802.11ax HEW80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	11.15	11.79	11.6	11.03	11.1	17.41	18.85	28.56	30.00
5610MHz	Pass	11.15	12.14	11.83	11.39	11.1	17.65	18.85	28.80	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	11.15	12.42	11.76	11.25	11.12	17.69	18.85	28.84	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	11.40	-1.68	-2.48	-2.89	-3.29	3.48	24.60	14.88	36.00
5775MHz	Pass	11.40	16.87	16.09	15.55	15.41	22.04	24.60	33.44	36.00

Port X = Port X output power

DG = Directional Gain =  $10 \log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ ;

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
1	4	4.07	--	--
2	4	4.07	--	--
3	--	--	5.01	5.13
4	--	--	5.12	5.09
5	--	--	5.2	5.65
6	--	--	5.2	5.65
Directional Gain (dBi)	7.01	7.08	11.15	11.40



Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	14.45	21.46
802.11ax HEW20_Nss1,(MCS0)_2TX	13.84	20.85
802.11ax HEW40_Nss1,(MCS0)_2TX	10.45	17.46
802.11ax HEW80_Nss1,(MCS0)_2TX	2.94	9.95
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_2TX	9.82	16.90
802.11ax HEW20_Nss1,(MCS0)_2TX	9.70	16.78
802.11ax HEW40_Nss1,(MCS0)_2TX	7.87	14.95
802.11ax HEW80_Nss1,(MCS0)_2TX	3.61	10.69
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	5.74	16.89
802.11ax HEW20_Nss1,(MCS0)_4TX	5.65	16.80
802.11ax HEW40_Nss1,(MCS0)_4TX	5.73	16.88
802.11ax HEW80_Nss1,(MCS0)_4TX	5.14	16.29
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	15.60	27.00
802.11ax HEW20_Nss1,(MCS0)_4TX	14.92	26.32
802.11ax HEW40_Nss1,(MCS0)_4TX	12.34	23.74
802.11ax HEW80_Nss1,(MCS0)_4TX	7.86	19.26

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.01	10.90	10.59			13.64	15.99	20.65	23.00
5200MHz	Pass	7.01	11.75	11.28			14.45	15.99	21.46	23.00
5240MHz	Pass	7.01	11.38	11.56			14.40	15.99	21.41	23.00
5260MHz	Pass	7.08	6.95	6.79			9.75	9.92	16.83	17.00
5300MHz	Pass	7.08	6.97	6.92			9.82	9.92	16.90	17.00
5320MHz	Pass	7.08	6.75	6.64			9.60	9.92	16.68	17.00
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	11.15	0.20	-0.08	-0.82	-0.54	5.62	5.85	16.77	17.00
5580MHz	Pass	11.15	0.25	0.06	-0.29	-0.26	5.73	5.85	16.88	17.00
5700MHz	Pass	11.15	0.75	0.01	-0.41	-0.74	5.74	5.85	16.89	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.15	0.74	-0.04	-0.58	-0.88	5.73	5.85	16.88	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	11.40	-0.97	-1.75	-2.14	-2.64	4.14	24.60	15.54	36.00
5745MHz	Pass	11.40	10.56	9.81	9.43	9.30	15.60	24.60	27.00	36.00
5785MHz	Pass	11.40	10.42	9.93	9.28	9.13	15.49	24.60	26.89	36.00
5825MHz	Pass	11.40	10.46	9.78	9.41	9.22	15.56	24.60	26.96	36.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	7.01	9.61	9.49			12.47	15.99	19.48	23.00
5200MHz	Pass	7.01	11.20	10.74			13.84	15.99	20.85	23.00
5240MHz	Pass	7.01	10.64	10.95			13.76	15.99	20.77	23.00
5260MHz	Pass	7.08	6.69	6.62			9.60	9.92	16.68	17.00
5300MHz	Pass	7.08	6.81	6.85			9.70	9.92	16.78	17.00
5320MHz	Pass	7.08	6.62	6.71			9.52	9.92	16.60	17.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5500MHz	Pass	11.15	0.52	-0.32	-0.58	-0.57	5.61	5.85	16.76	17.00
5580MHz	Pass	11.15	-0.02	-0.18	-0.53	-0.69	5.53	5.85	16.68	17.00
5700MHz	Pass	11.15	0.86	-0.12	-0.69	-1.08	5.65	5.85	16.80	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	11.15	0.67	-0.11	-0.89	-1.09	5.55	5.85	16.70	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	11.40	-1.50	-2.83	-3.19	-2.90	3.34	24.60	14.74	36.00
5745MHz	Pass	11.40	9.66	9.36	8.76	8.48	14.88	24.60	26.28	36.00
5785MHz	Pass	11.40	9.72	9.40	8.83	8.50	14.92	24.60	26.32	36.00
5825MHz	Pass	11.40	9.70	9.15	8.79	8.52	14.85	24.60	26.25	36.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	7.01	5.25	4.88			7.95	15.99	14.96	23.00
5230MHz	Pass	7.01	7.56	7.44			10.45	15.99	17.46	23.00
5270MHz	Pass	7.08	4.68	4.39			7.45	9.92	14.53	17.00
5310MHz	Pass	7.08	4.99	4.90			7.87	9.92	14.95	17.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-



Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5510MHz	Pass	11.15	0.24	-0.39	-0.62	-0.81	5.41	5.85	16.56	17.00
5590MHz	Pass	11.15	0.04	-0.38	-0.58	-0.73	5.37	5.85	16.52	17.00
5670MHz	Pass	11.15	0.87	-0.25	-0.39	-0.84	5.70	5.85	16.85	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	11.15	0.81	-0.02	-0.58	-0.72	5.73	5.85	16.88	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	11.40	-2.24	-3.47	-3.76	-3.58	2.73	24.60	14.13	36.00
5755MHz	Pass	11.40	7.27	6.61	6.30	5.99	12.34	24.60	23.74	36.00
5795MHz	Pass	11.40	7.12	6.29	6.13	5.59	12.11	24.60	23.51	36.00
802.11ax HEW80_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	7.01	0.36	-0.27			2.94	15.99	9.95	23.00
5290MHz	Pass	7.08	0.74	0.70			3.61	9.92	10.69	17.00
802.11ax HEW80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5530MHz	Pass	11.15	-0.52	-0.94	-1.38	-1.66	4.65	5.85	15.80	17.00
5610MHz	Pass	11.15	-0.06	-0.59	-0.88	-1.28	5.12	5.85	16.27	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	11.15	0.43	-0.71	-0.92	-1.29	5.14	5.85	16.29	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	11.40	-4.21	-4.92	-5.24	-5.43	0.91	24.60	12.31	36.00
5775MHz	Pass	11.40	2.83	2.08	1.64	1.22	7.86	24.60	19.26	36.00

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

DG = Directional Gain =  $10 \log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$ ;

Ant. No.	Operating Frequencies (MHz) / Antenna Gain (dBi)			
	5150 ~ 5250	5250 ~ 5350	5470 ~ 5725	5725 ~ 5850
1	4	4.07	--	--
2	4	4.07	--	--
3	--	--	5.01	5.13
4	--	--	5.12	5.09
5	--	--	5.2	5.65
6	--	--	5.2	5.65
Directional Gain (dBi)	7.01	7.08	11.15	11.40



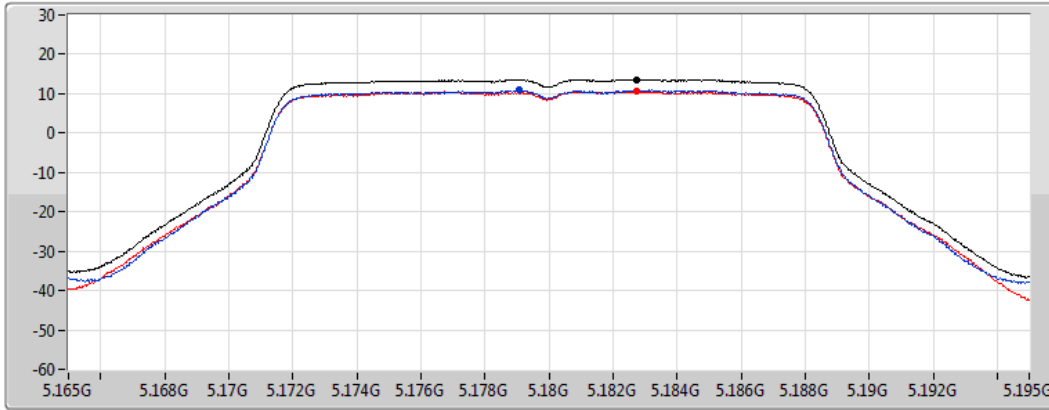


### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

#### 5180MHz

CF  
5.18GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

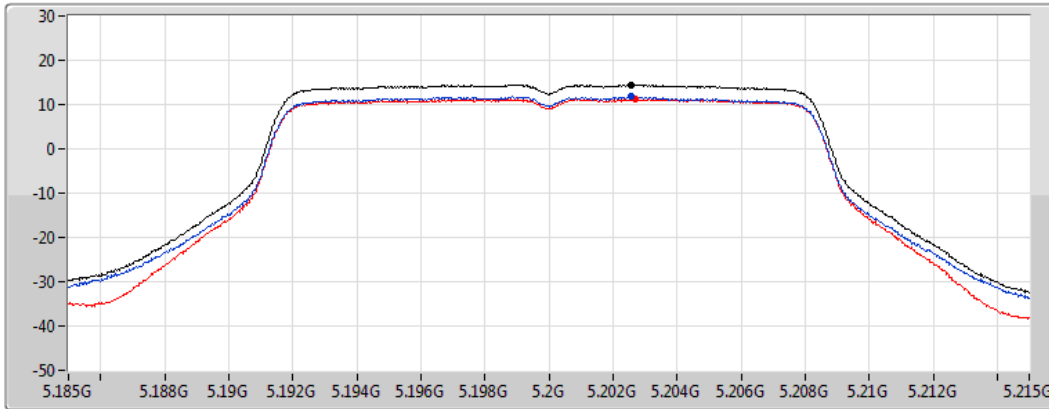
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.64	13.64	10.90	10.59

### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

#### 5200MHz

CF  
5.2GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.45	14.45	11.75	11.28

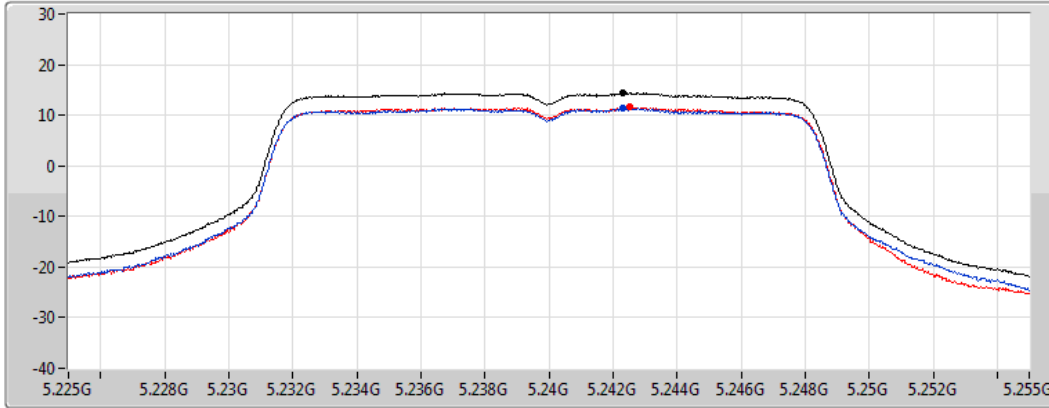


### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

#### 5240MHz

CF  
5.24GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

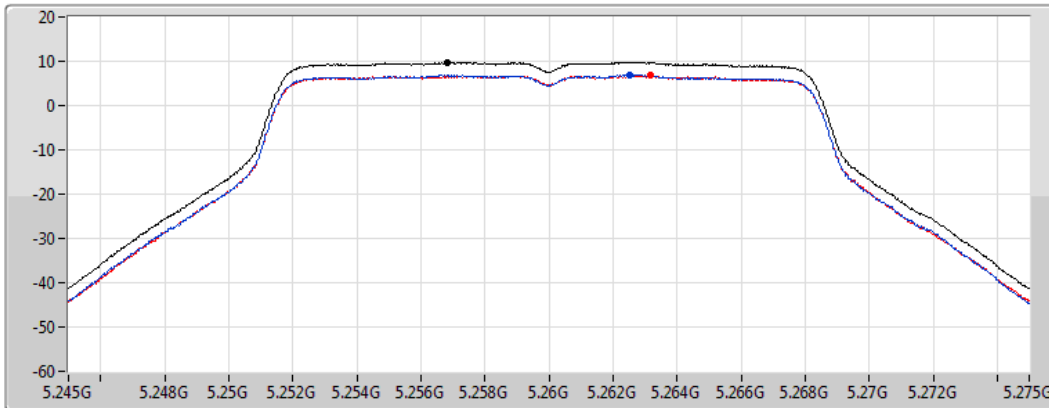
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.40	14.40	11.38	11.56

### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

#### 5260MHz

CF  
5.26GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.75	9.75	6.95	6.79

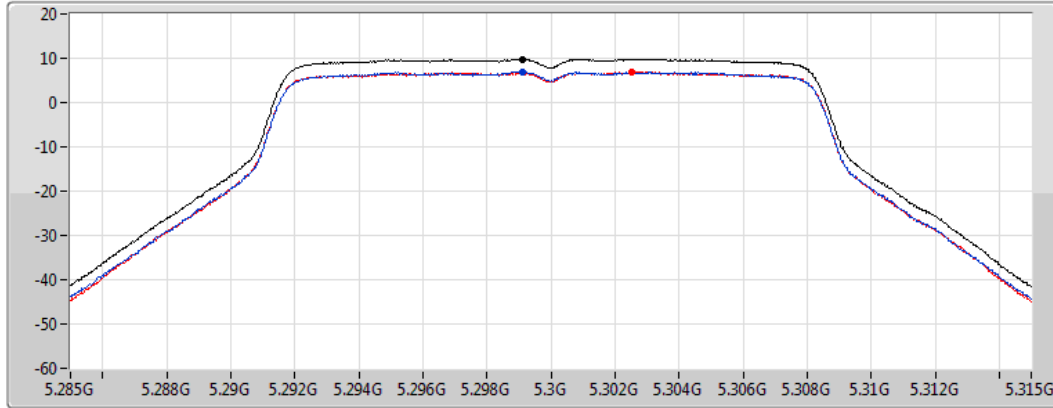


### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

#### 5300MHz

CF  
5.3GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

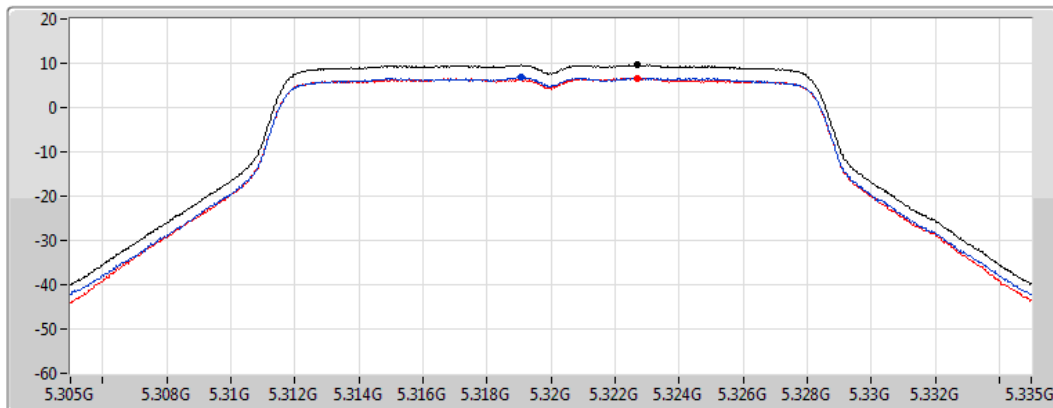
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.82	9.82	6.97	6.92

### 802.11a\_Nss1,(6Mbps)\_2TX

PSD

#### 5320MHz

CF  
5.32GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.60	9.60	6.75	6.64

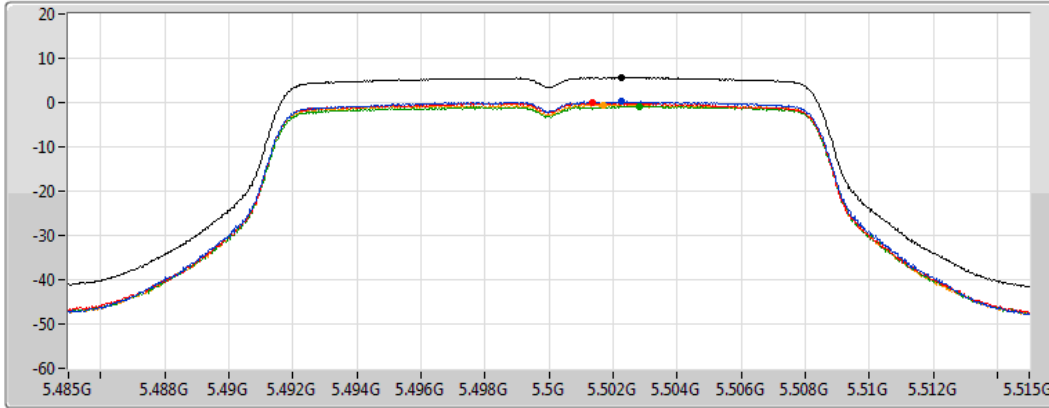


### 802.11a\_Nss1,(6Mbps)\_4TX

PSD

#### 5500MHz

CF  
5.5GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3  
Port 4

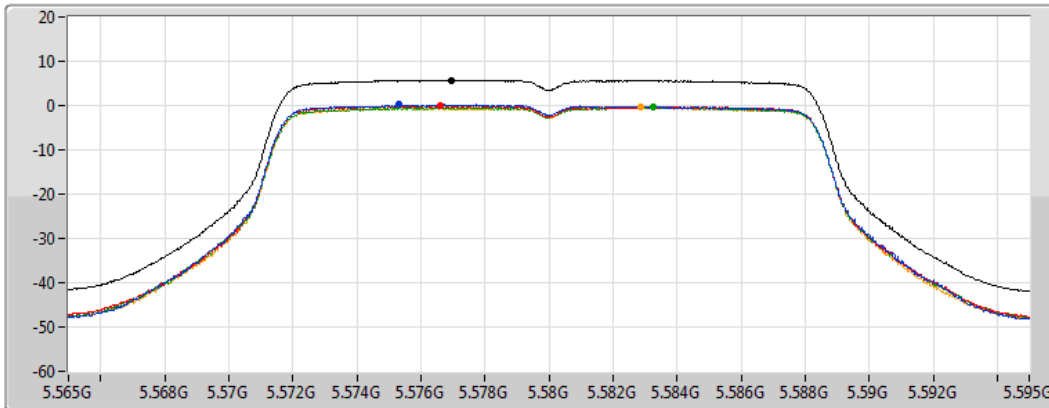
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.62	5.62	0.20	-0.08	-0.82	-0.54

### 802.11a\_Nss1,(6Mbps)\_4TX

PSD

#### 5580MHz

CF  
5.58GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3  
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.73	5.73	0.25	0.06	-0.29	-0.26

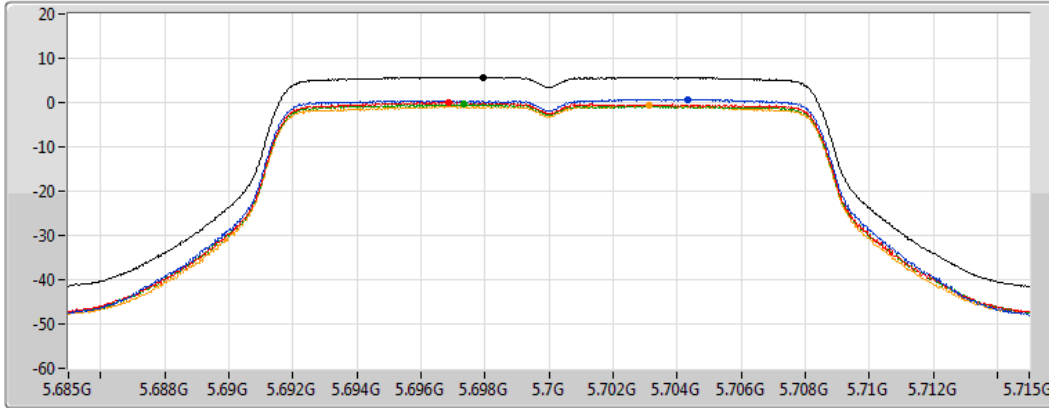


802.11a\_Nss1,(6Mbps)\_4TX

PSD

5700MHz

CF  
5.7GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3  
Port 4

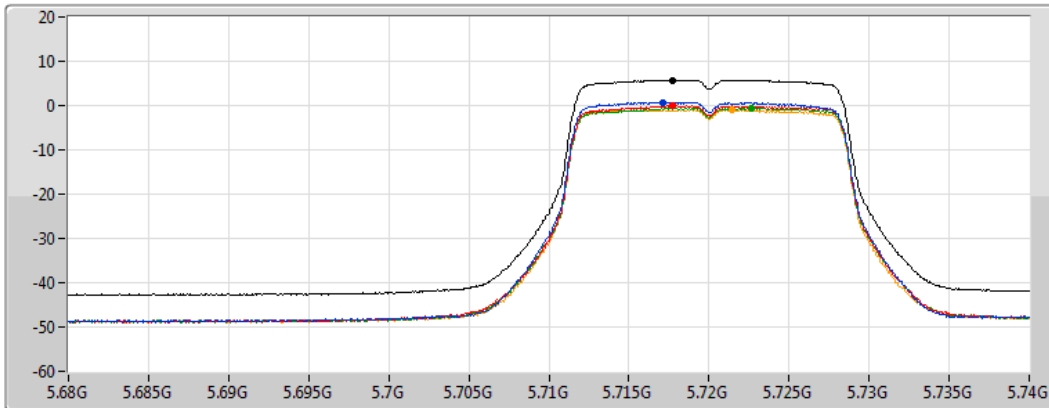
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.74	5.74	0.75	0.01	-0.41	-0.74

802.11a\_Nss1,(6Mbps)\_4TX

PSD

5720MHz Straddle 5.47-5.725GHz

CF  
5.71GHz  
Span  
60MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3  
Port 4

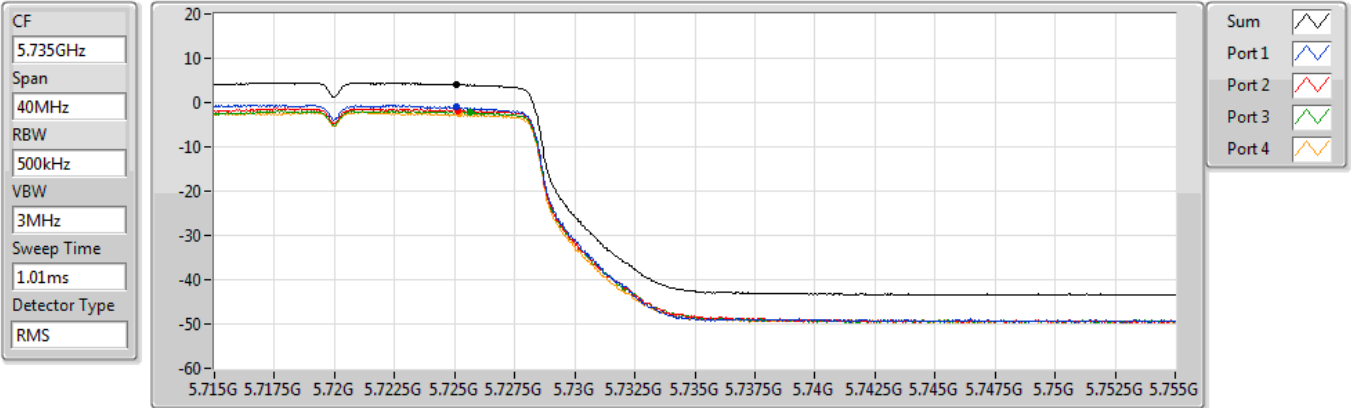
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.73	5.73	0.74	-0.04	-0.58	-0.88



### 802.11a\_Nss1,(6Mbps)\_4TX

PSD

#### 5720MHz Straddle 5.725-5.85GHz

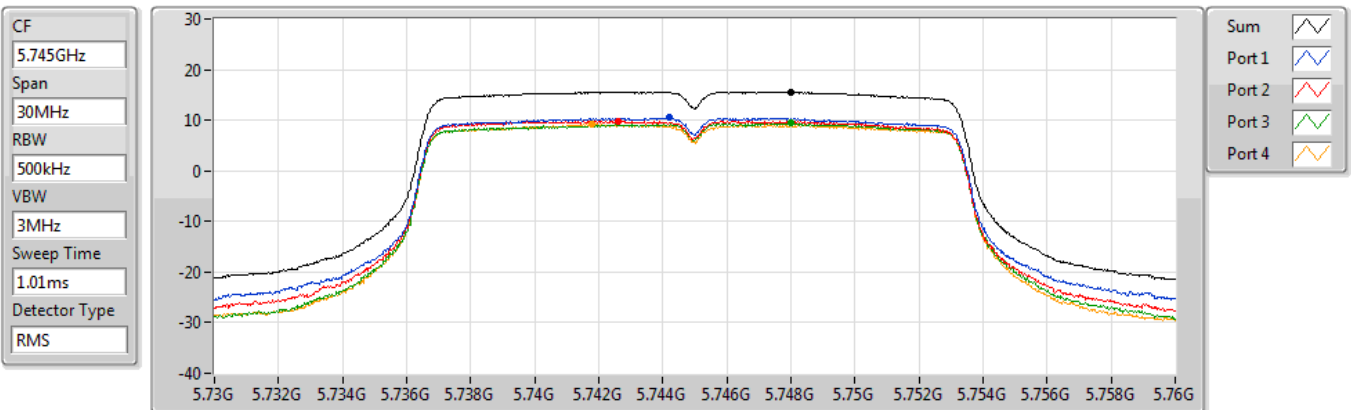


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.14	4.14	-0.97	-1.75	-2.14	-2.64

### 802.11a\_Nss1,(6Mbps)\_4TX

PSD

#### 5745MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.60	15.60	10.56	9.81	9.43	9.30

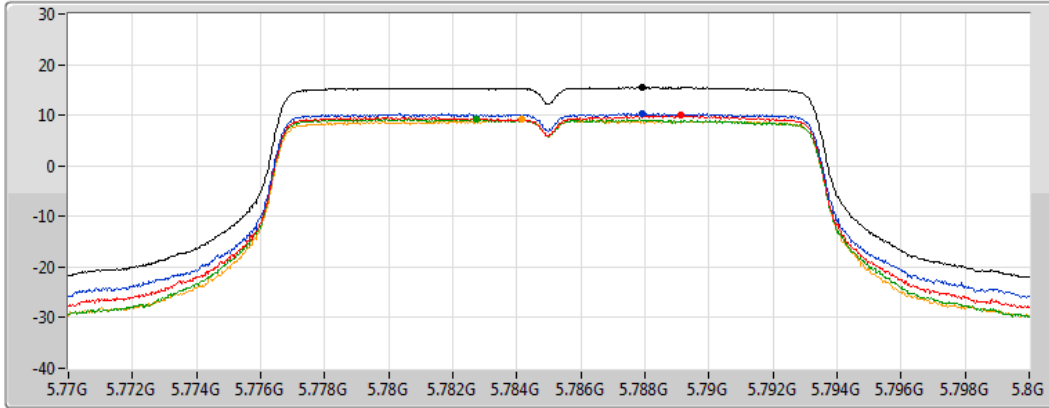


### 802.11a\_Nss1,(6Mbps)\_4TX

PSD

#### 5785MHz

CF  
5.785GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2   
Port 3   
Port 4

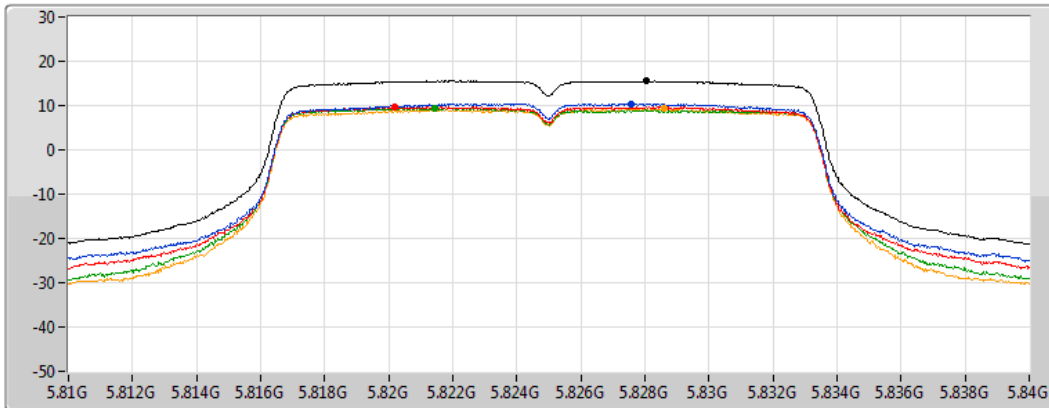
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.49	15.49	10.42	9.93	9.28	9.13

### 802.11a\_Nss1,(6Mbps)\_4TX

PSD

#### 5825MHz

CF  
5.825GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2   
Port 3   
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
15.56	15.56	10.46	9.78	9.41	9.22

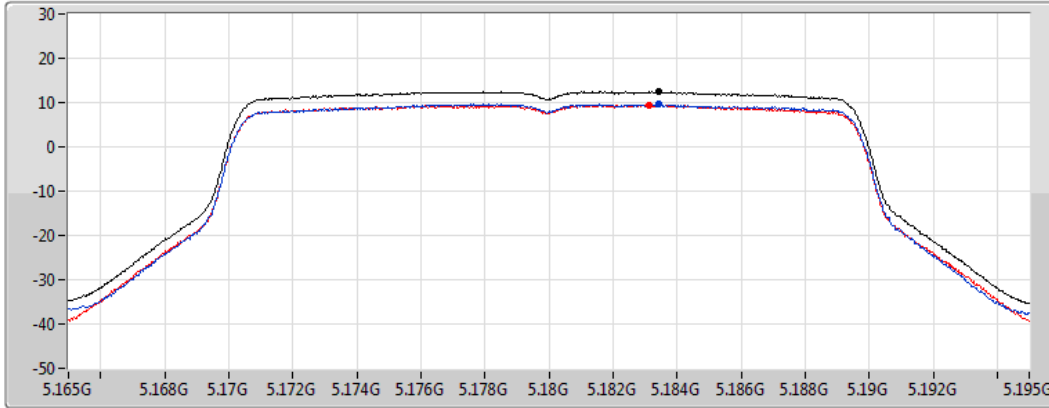


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

PSD

#### 5180MHz

CF  
5.18GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

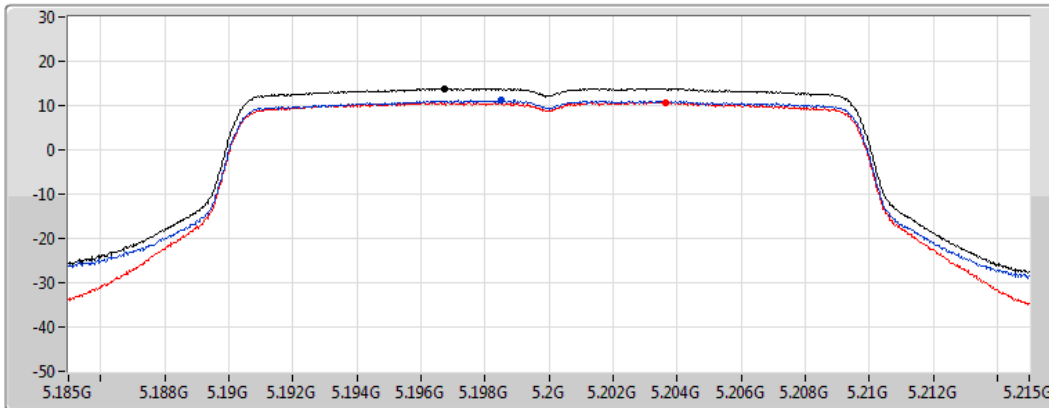
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.47	12.47	9.61	9.49

### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

PSD

#### 5200MHz

CF  
5.2GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.84	13.84	11.20	10.74



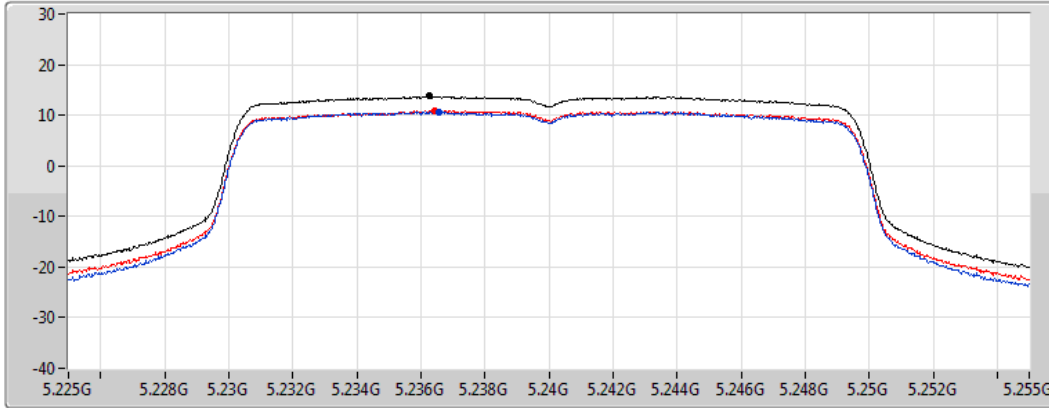


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

PSD

#### 5240MHz

CF  
5.24GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

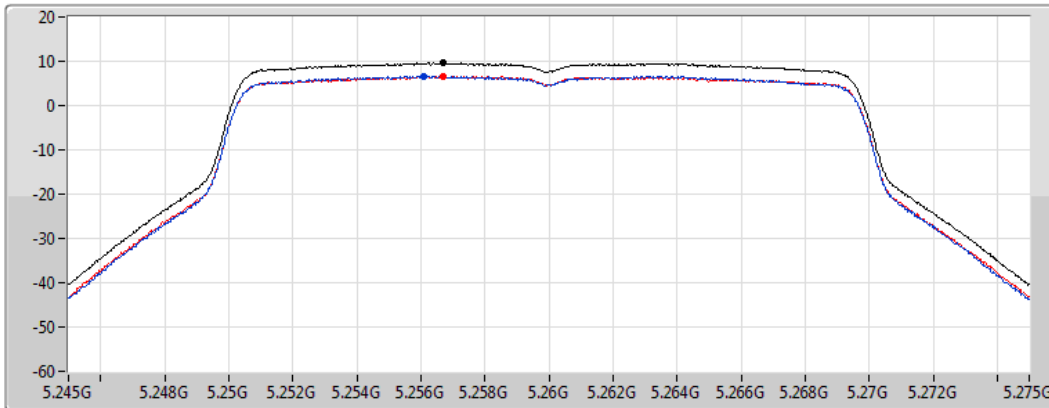
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
13.76	13.76	10.64	10.95

### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

PSD

#### 5260MHz

CF  
5.26GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.60	9.60	6.69	6.62

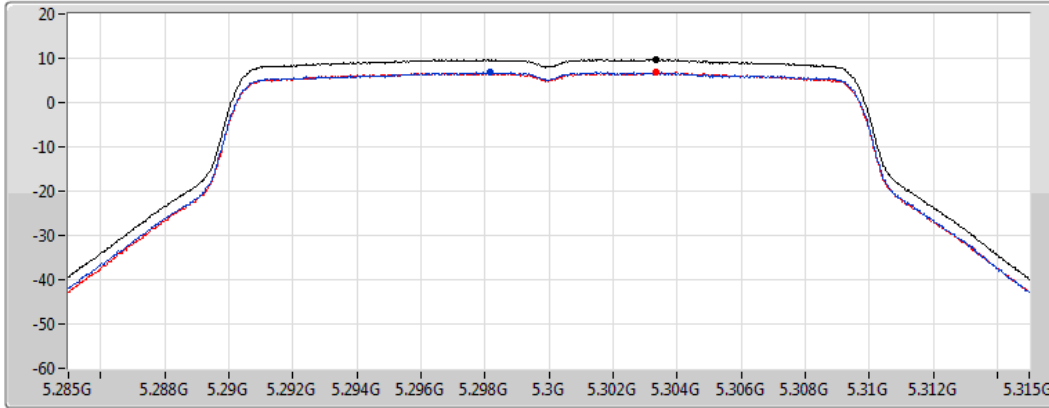


### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

PSD

#### 5300MHz

CF  
5.3GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

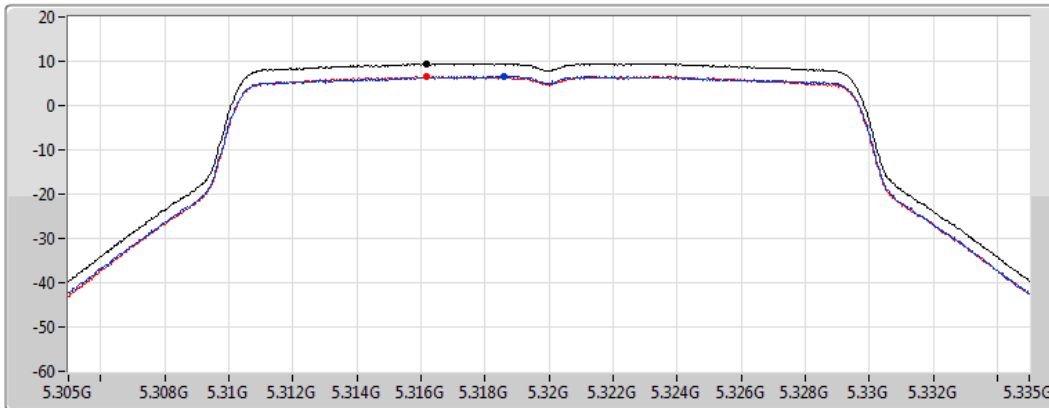
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.70	9.70	6.81	6.85

### 802.11ax HEW20\_Nss1,(MCS0)\_2TX

PSD

#### 5320MHz

CF  
5.32GHz  
Span  
30MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

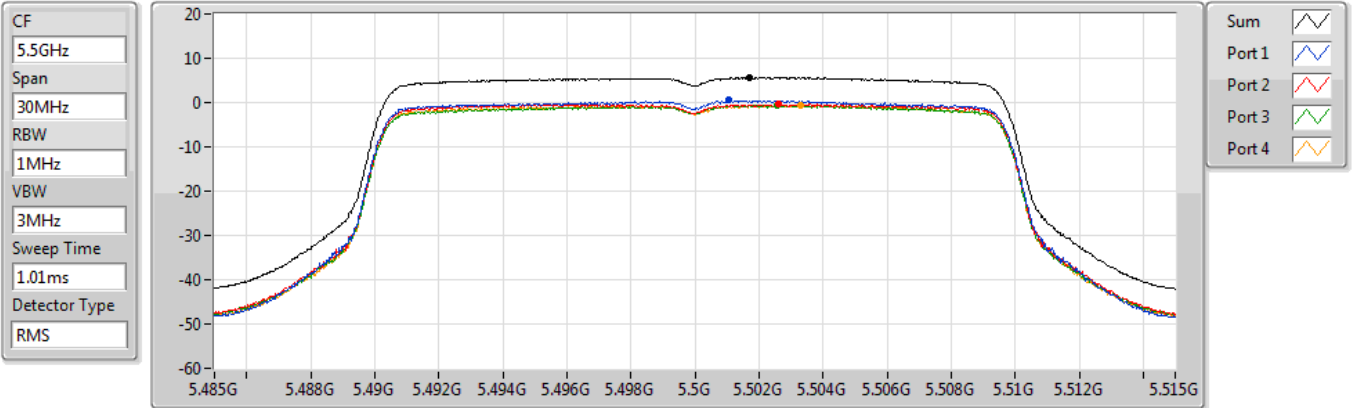
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
9.52	9.52	6.62	6.71



### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

#### 5500MHz

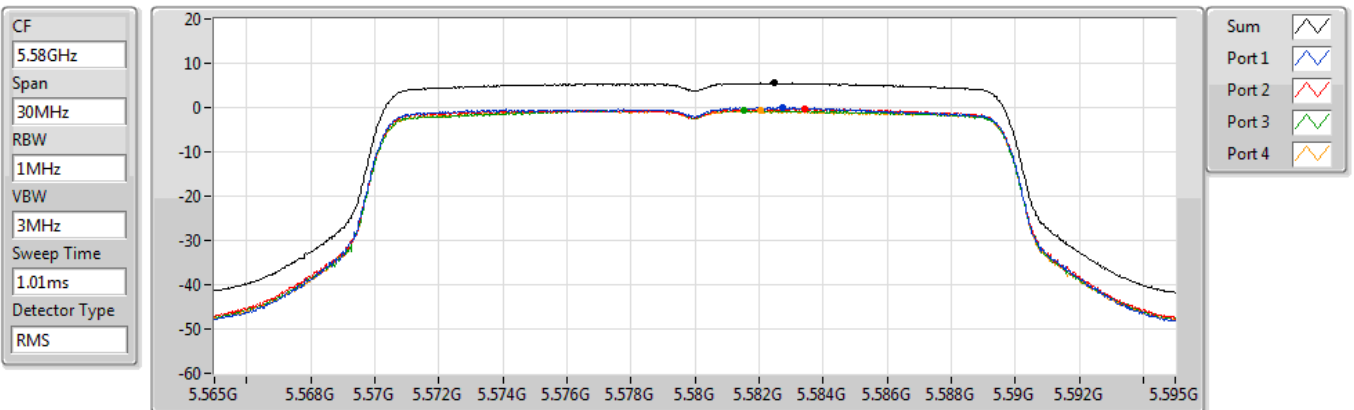


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.61	5.61	0.52	-0.32	-0.58	-0.57

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

#### 5580MHz



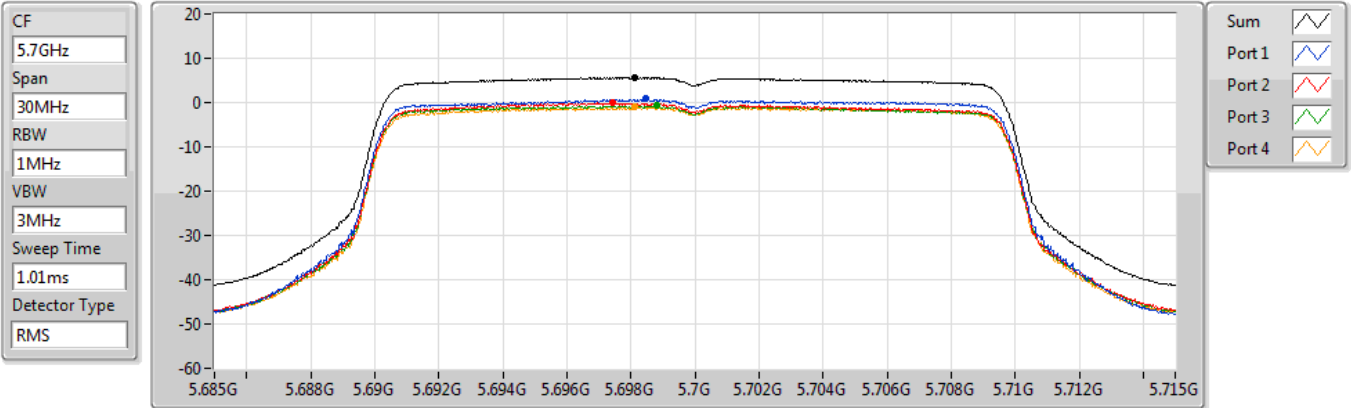
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.53	5.53	-0.02	-0.18	-0.53	-0.69



### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

#### 5700MHz

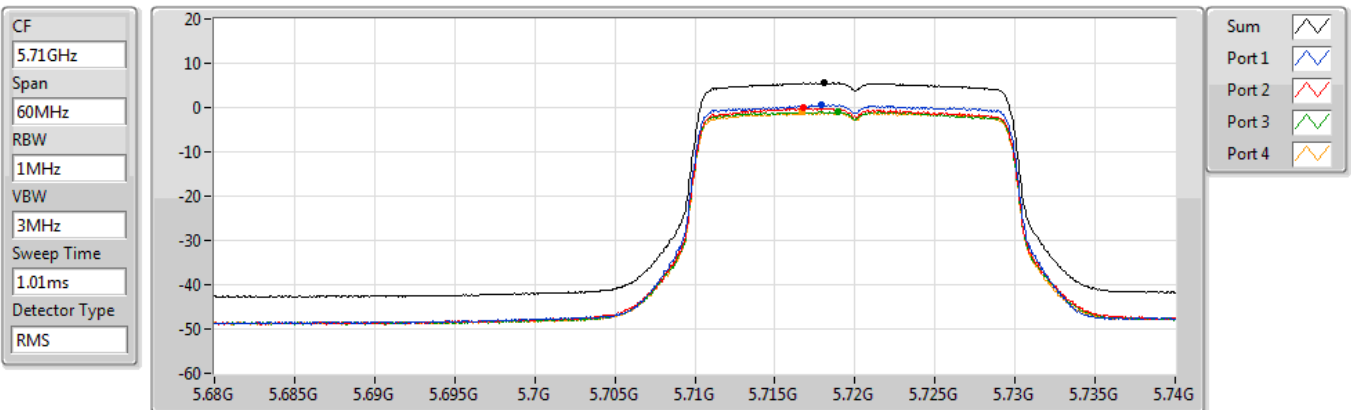


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.65	5.65	0.86	-0.12	-0.69	-1.08

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

#### 5720MHz Straddle 5.47-5.725GHz



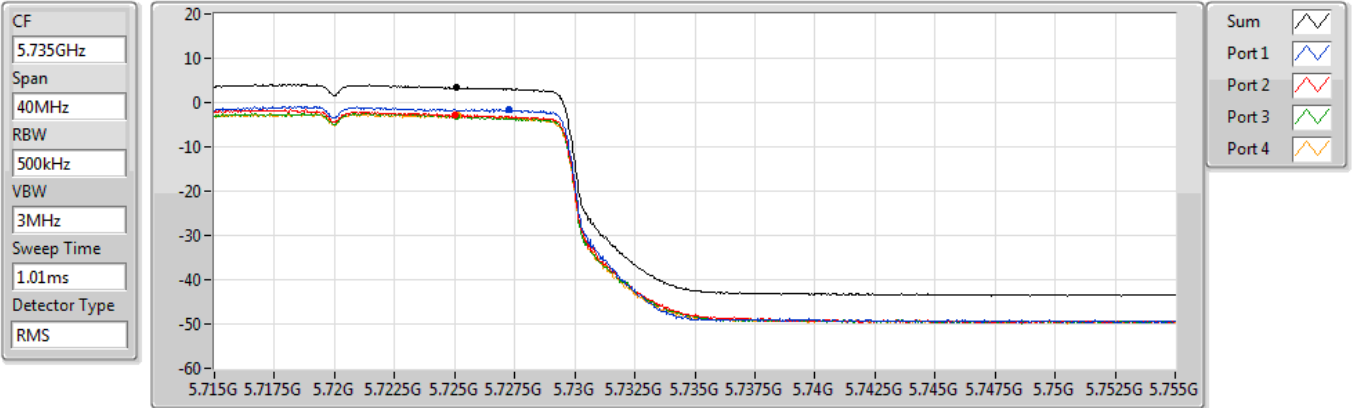
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.55	5.55	0.67	-0.11	-0.89	-1.09



802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

5720MHz Straddle 5.725-5.85GHz

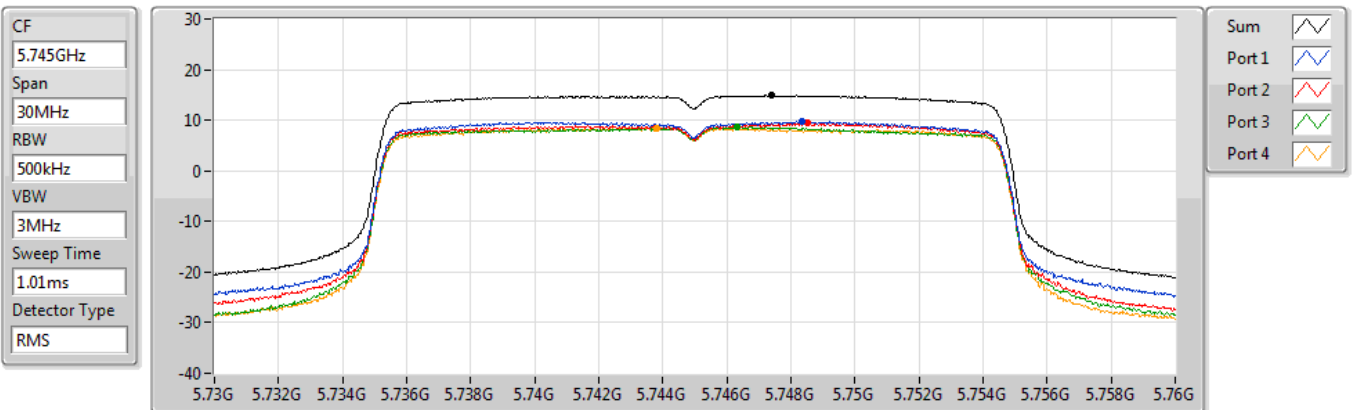


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.34	3.34	-1.50	-2.83	-3.19	-2.90

802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

5745MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.88	14.88	9.66	9.36	8.76	8.48

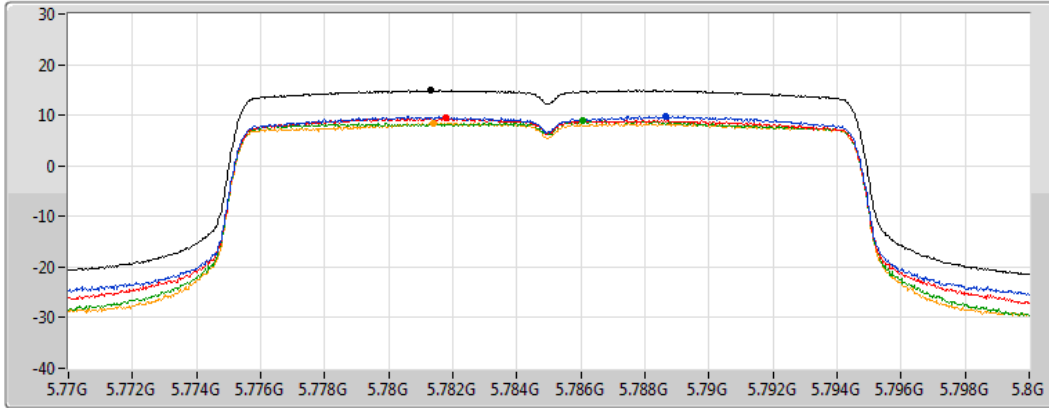


### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

#### 5785MHz

CF  
5.785GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3  
Port 4

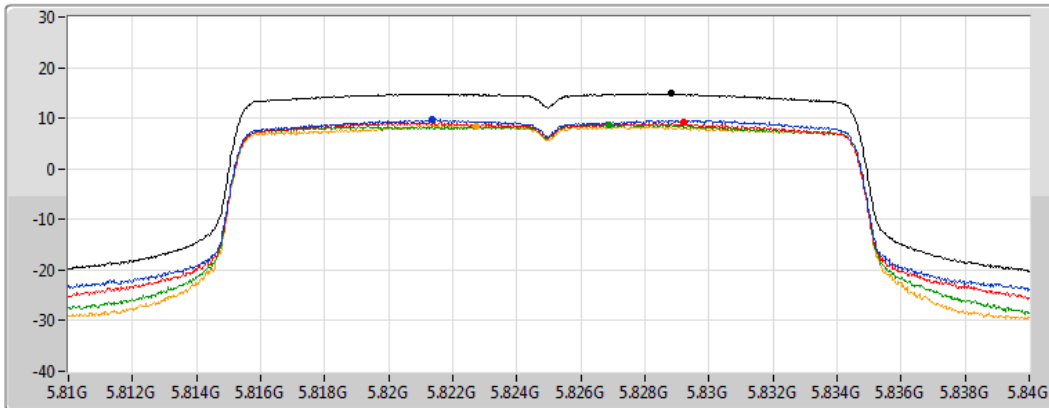
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.92	14.92	9.72	9.40	8.83	8.50

### 802.11ax HEW20\_Nss1,(MCS0)\_4TX

PSD

#### 5825MHz

CF  
5.825GHz  
Span  
30MHz  
RBW  
500kHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3  
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
14.85	14.85	9.70	9.15	8.79	8.52

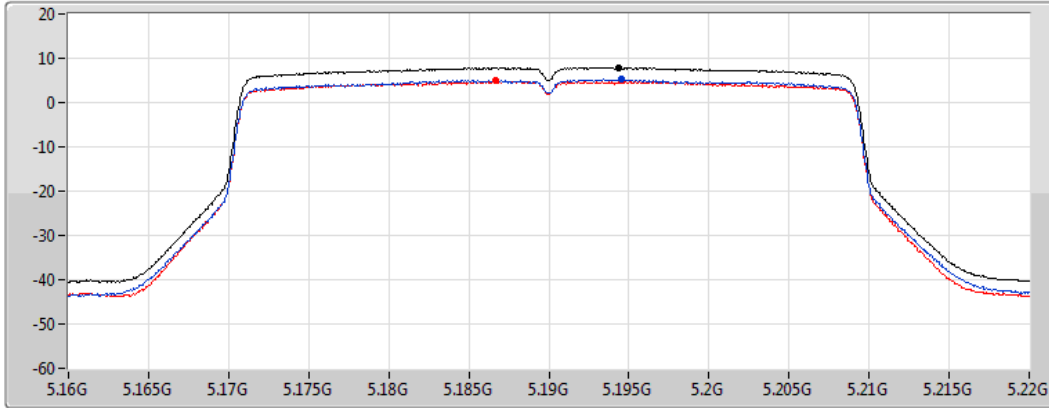


### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

PSD

#### 5190MHz

CF  
5.19GHz  
Span  
60MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

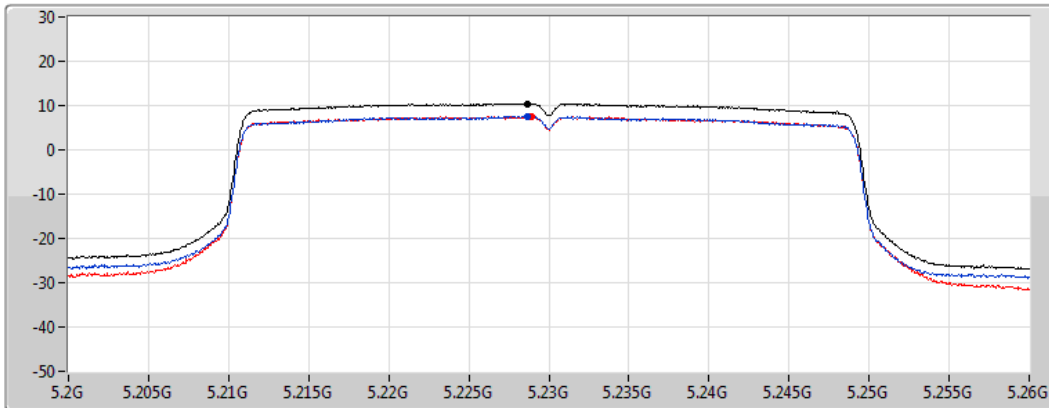
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.95	7.95	5.25	4.88

### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

PSD

#### 5230MHz

CF  
5.23GHz  
Span  
60MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
10.45	10.45	7.56	7.44

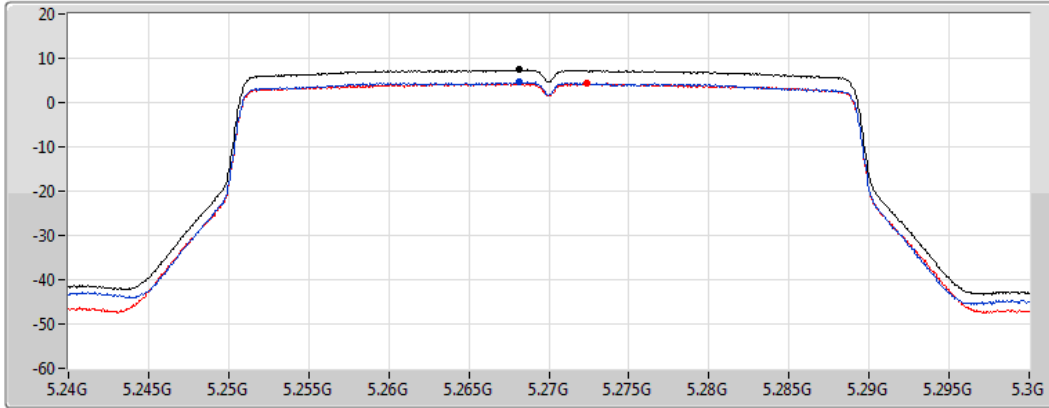


### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

PSD

#### 5270MHz

CF  
5.27GHz  
Span  
60MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

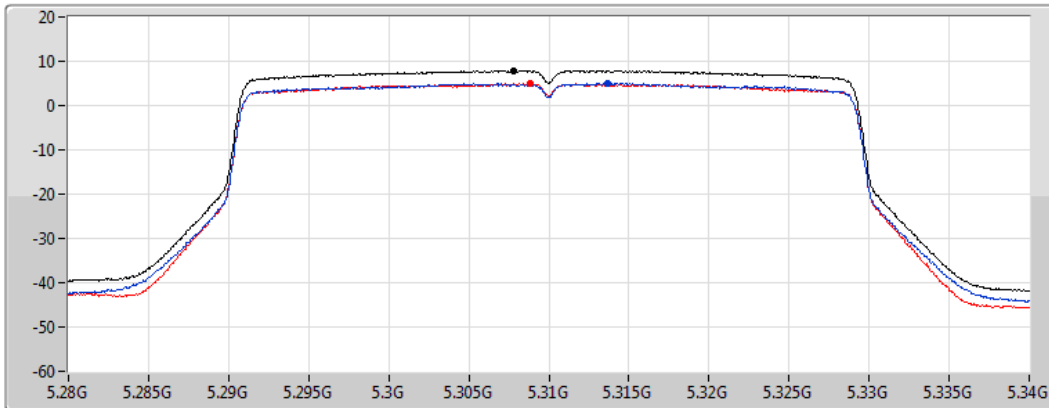
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.45	7.45	4.68	4.39

### 802.11ax HEW40\_Nss1,(MCS0)\_2TX

PSD

#### 5310MHz

CF  
5.31GHz  
Span  
60MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.87	7.87	4.99	4.90

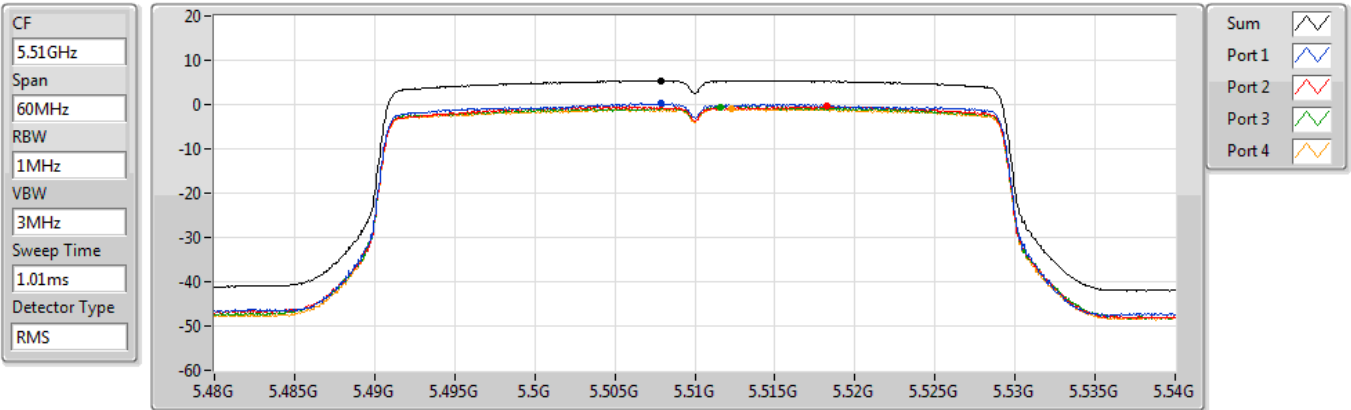




### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

#### 5510MHz

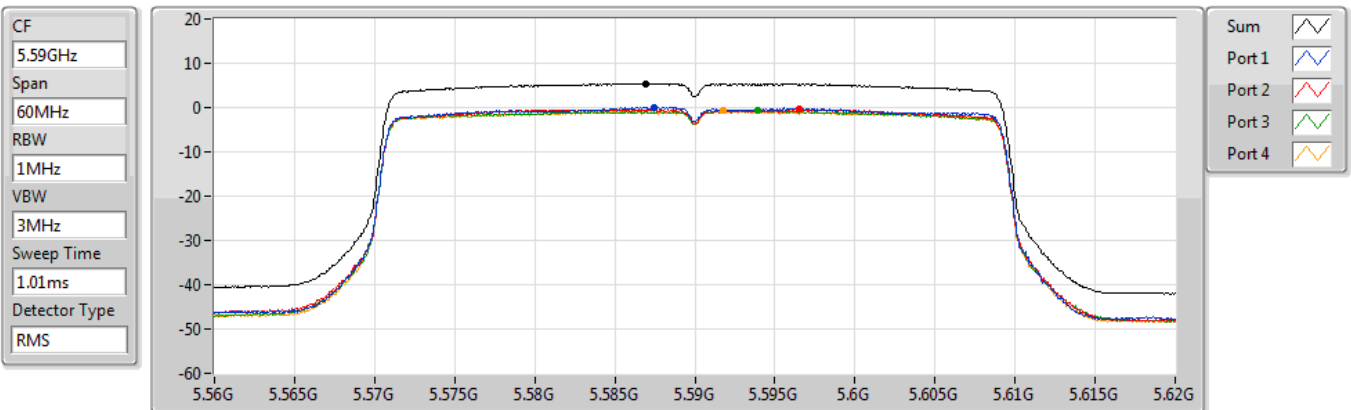


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.41	5.41	0.24	-0.39	-0.62	-0.81

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

#### 5590MHz



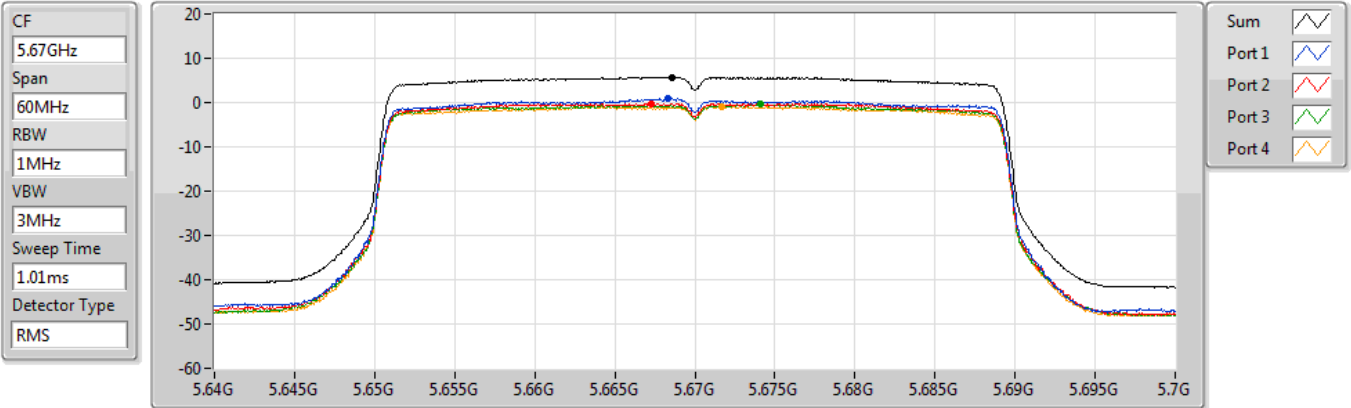
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.37	5.37	0.04	-0.38	-0.58	-0.73



802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

5670MHz

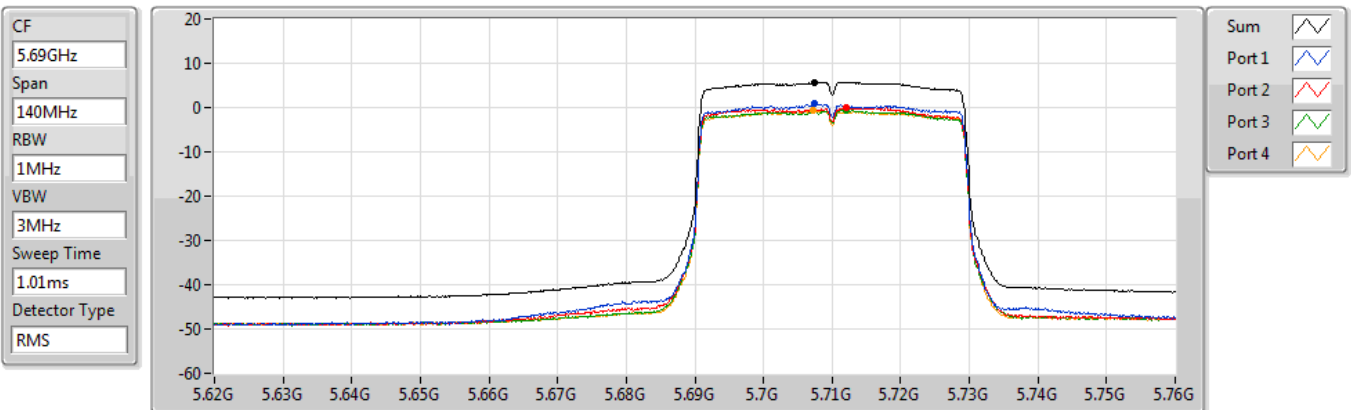


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.70	5.70	0.87	-0.25	-0.39	-0.84

802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

5710MHz Straddle 5.47-5.725GHz



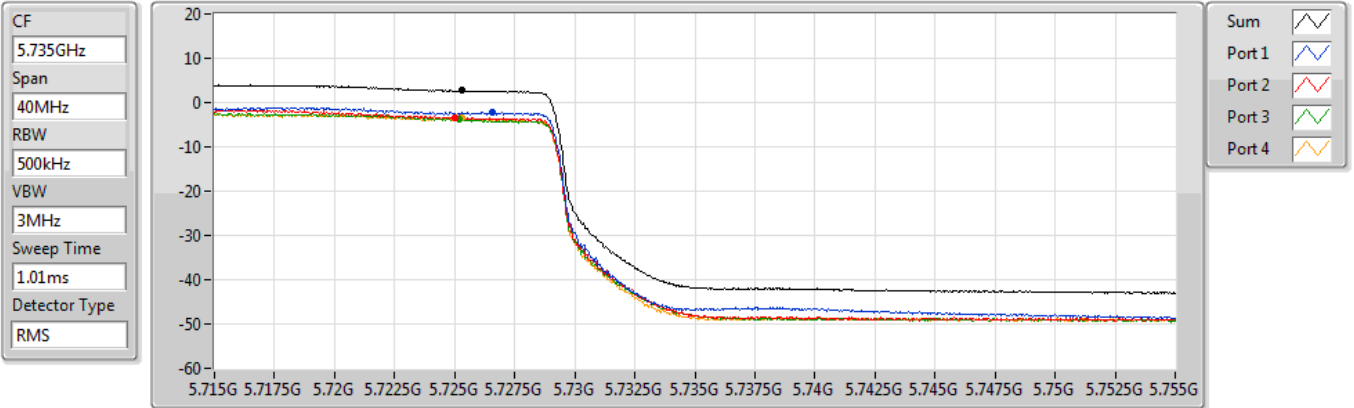
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.73	5.73	0.81	-0.02	-0.58	-0.72



### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

#### 5710MHz Straddle 5.725-5.85GHz

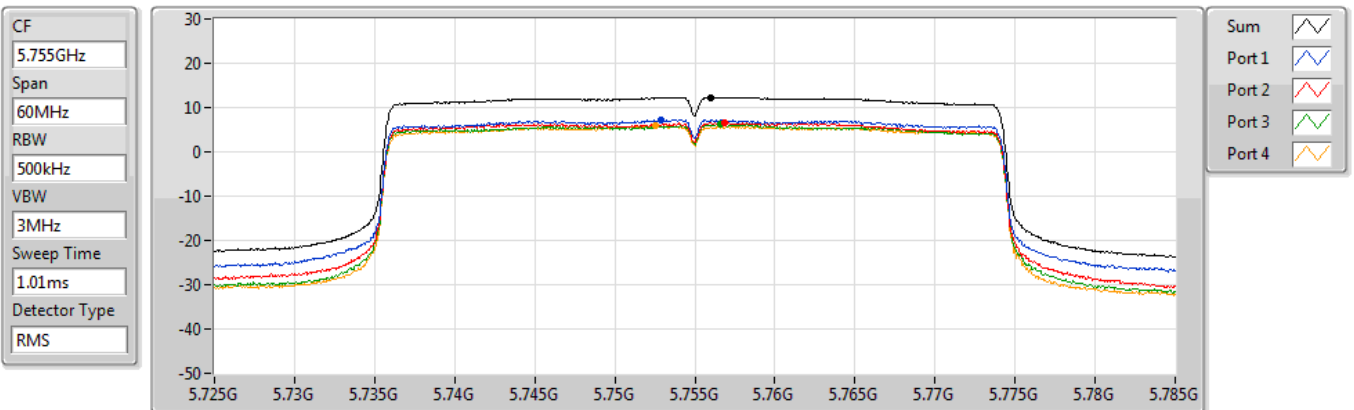


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.73	2.73	-2.24	-3.47	-3.76	-3.58

### 802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

#### 5755MHz



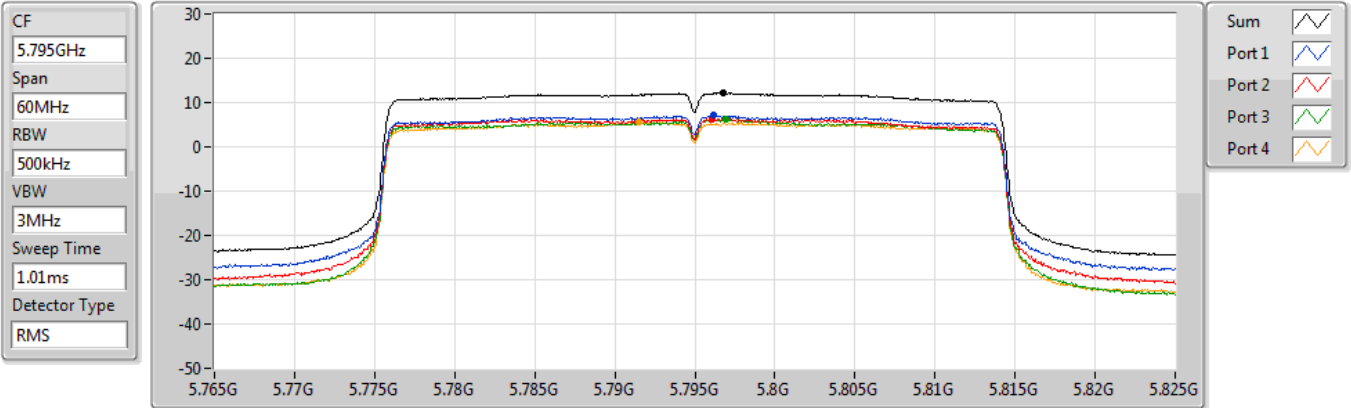
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.34	12.34	7.27	6.61	6.30	5.99



802.11ax HEW40\_Nss1,(MCS0)\_4TX

PSD

5795MHz

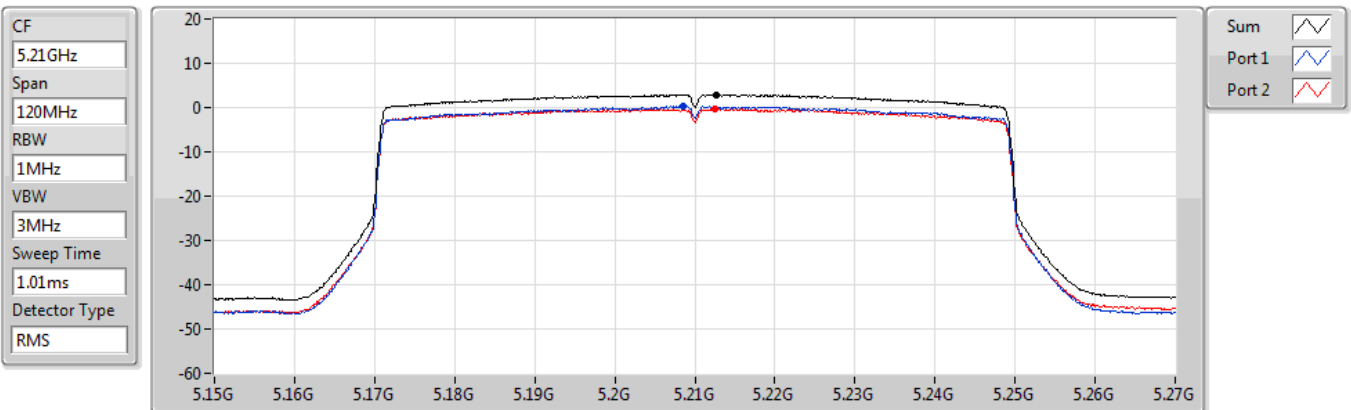


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
12.11	12.11	7.12	6.29	6.13	5.59

802.11ax HEW80\_Nss1,(MCS0)\_2TX

PSD

5210MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.94	2.94	0.36	-0.27

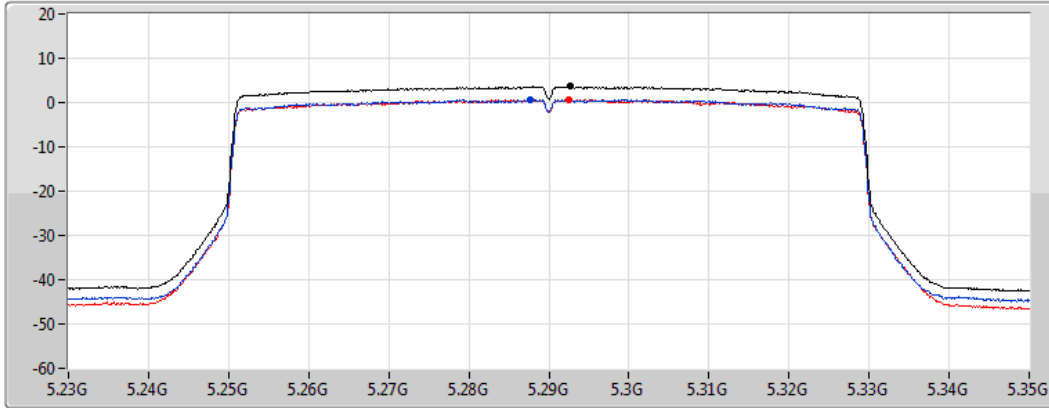


802.11ax HEW80\_Nss1,(MCS0)\_2TX

PSD

5290MHz

CF  
5.29GHz  
Span  
120MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2

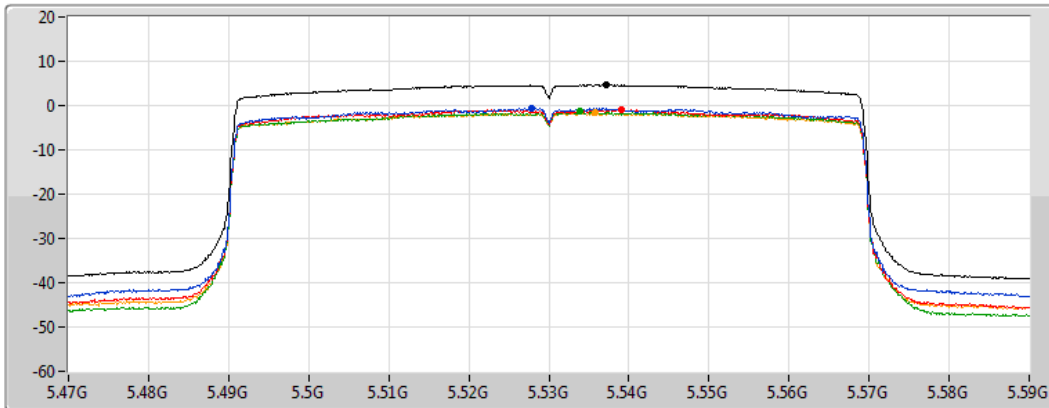
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.61	3.61	0.74	0.70

802.11ax HEW80\_Nss1,(MCS0)\_4TX

PSD

5530MHz

CF  
5.53GHz  
Span  
120MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum   
Port 1   
Port 2   
Port 3   
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.65	4.65	-0.52	-0.94	-1.38	-1.66

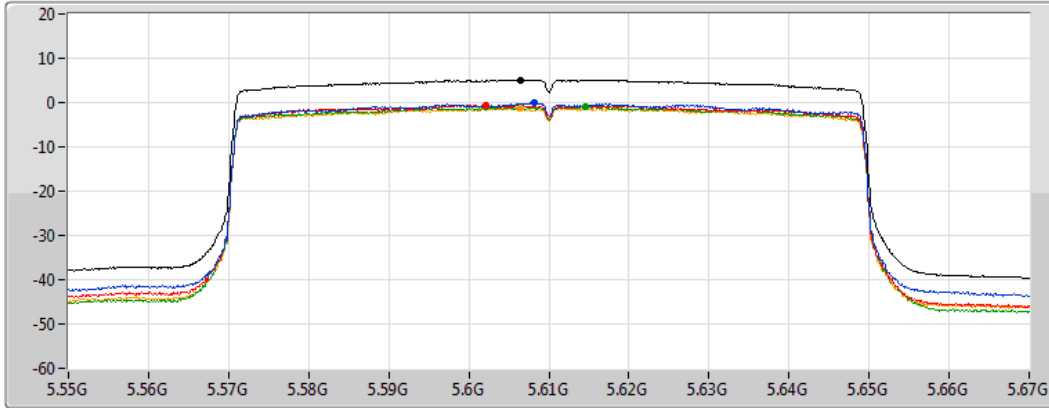


### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

PSD

#### 5610MHz

CF  
5.61GHz  
Span  
120MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



Sum  
Port 1  
Port 2  
Port 3  
Port 4

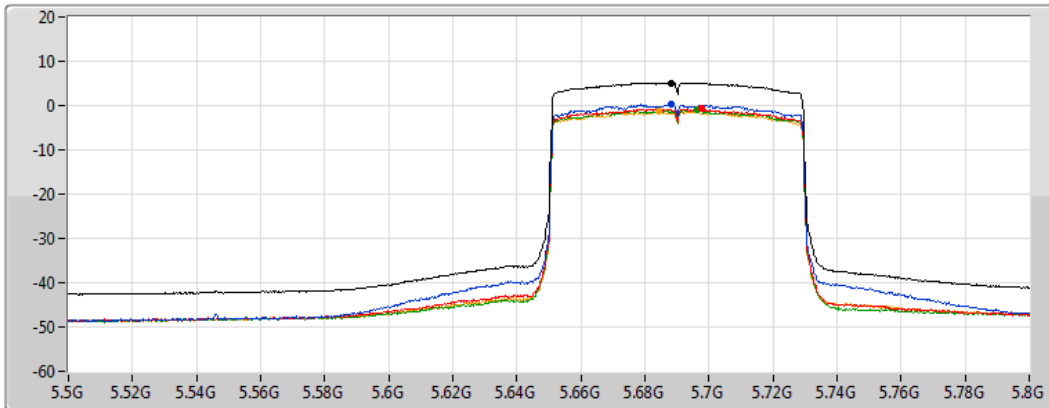
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.12	5.12	-0.06	-0.59	-0.88	-1.28

### 802.11ax HEW80\_Nss1,(MCS0)\_4TX

PSD

#### 5690MHz Straddle 5.47-5.725GHz

CF  
5.65GHz  
Span  
300MHz  
RBW  
1MHz  
VBW  
3MHz  
Sweep Time  
1.01ms  
Detector Type  
RMS



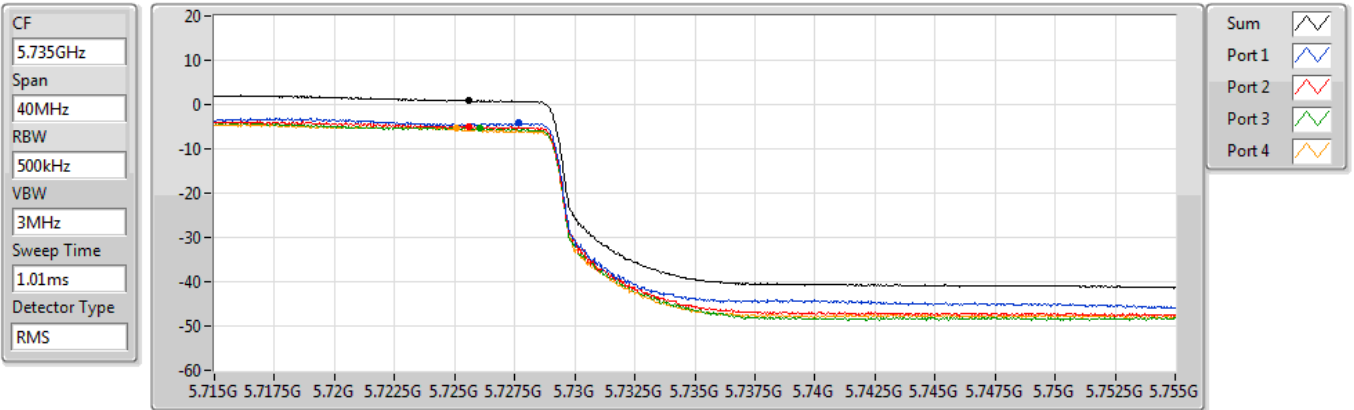
Sum  
Port 1  
Port 2  
Port 3  
Port 4

Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.14	5.14	0.43	-0.71	-0.92	-1.29

802.11ax HEW80\_Nss1,(MCS0)\_4TX

PSD

5690MHz Straddle 5.725-5.85GHz

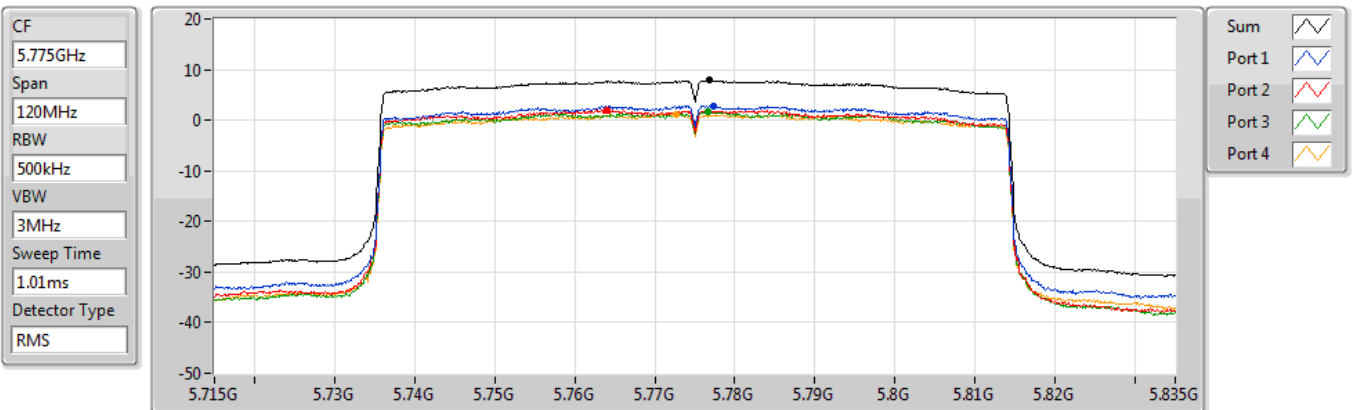


Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.91	0.91	-4.21	-4.92	-5.24	-5.43

802.11ax HEW80\_Nss1,(MCS0)\_4TX

PSD

5775MHz



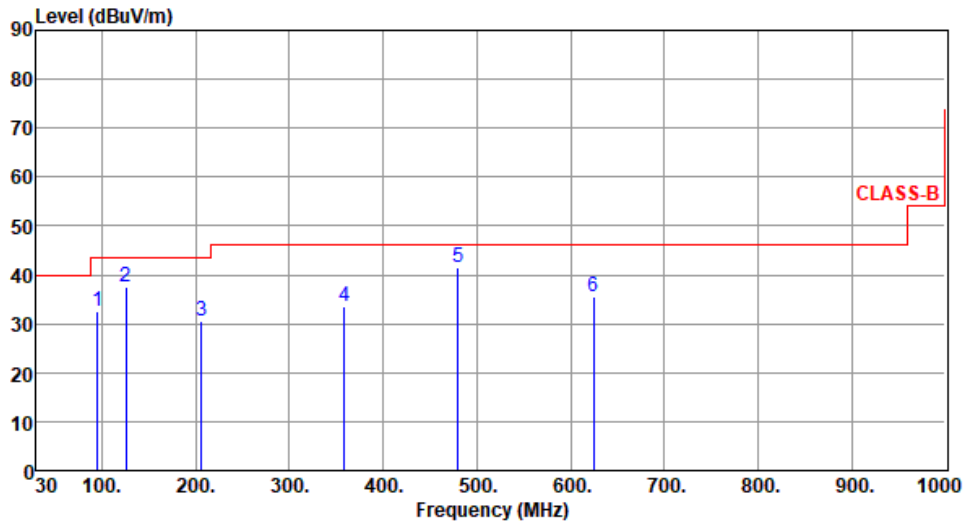
Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
7.86	7.86	2.83	2.08	1.64	1.22



Emission Below 1GHz

Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By :Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	95.65	32.45	43.50	-11.05	46.67	-14.22	Peak	---	---
2	125.26	37.59	43.50	-5.91	47.84	-10.25	Peak	---	---
3	206.49	30.64	43.50	-12.86	42.60	-11.96	Peak	---	---
4	358.59	33.59	46.00	-12.41	40.32	-6.73	Peak	---	---
5	480.15	41.64	46.00	-4.36	45.39	-3.75	Peak	---	---
6	624.83	35.59	46.00	-10.41	36.05	-0.46	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

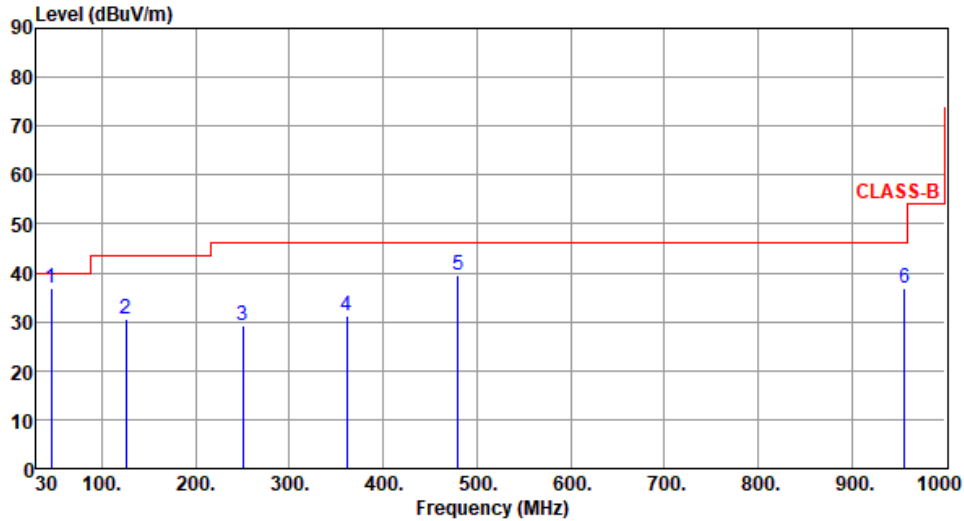
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.





Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		

Test By :Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	45.67	36.78	40.00	-3.22	45.30	-8.52	QP	100	16
2	125.26	30.64	43.50	-12.86	40.89	-10.25	Peak	---	---
3	250.26	29.34	46.00	-16.66	39.40	-10.06	Peak	---	---
4	361.59	31.09	46.00	-14.91	37.72	-6.63	Peak	---	---
5	480.26	39.67	46.00	-6.33	43.42	-3.75	Peak	---	---
6	956.12	36.81	46.00	-9.19	32.37	4.44	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

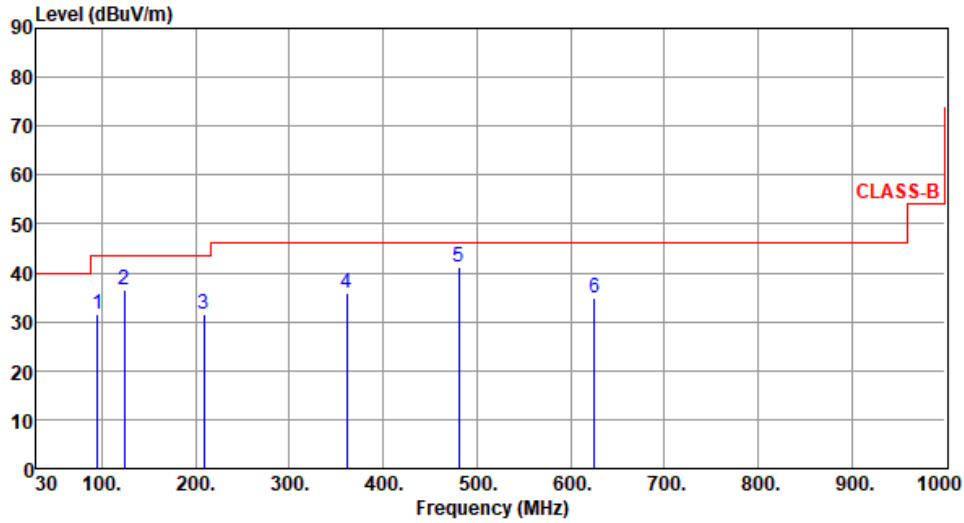
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



<b>Modulation</b>	ax HE40	<b>Test Freq. (MHz)</b>	5755
<b>Polarization</b>	Horizontal		

Test By :Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	95.64	31.58	43.50	-11.92	45.80	-14.22	Peak	---	---
2	124.09	36.64	43.50	-6.86	46.93	-10.29	Peak	---	---
3	208.49	31.64	43.50	-11.86	43.60	-11.96	Peak	---	---
4	361.25	35.97	46.00	-10.03	42.61	-6.64	Peak	---	---
5	480.37	41.25	46.00	-4.75	45.00	-3.75	Peak	---	---
6	625.58	34.98	46.00	-11.02	35.43	-0.45	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

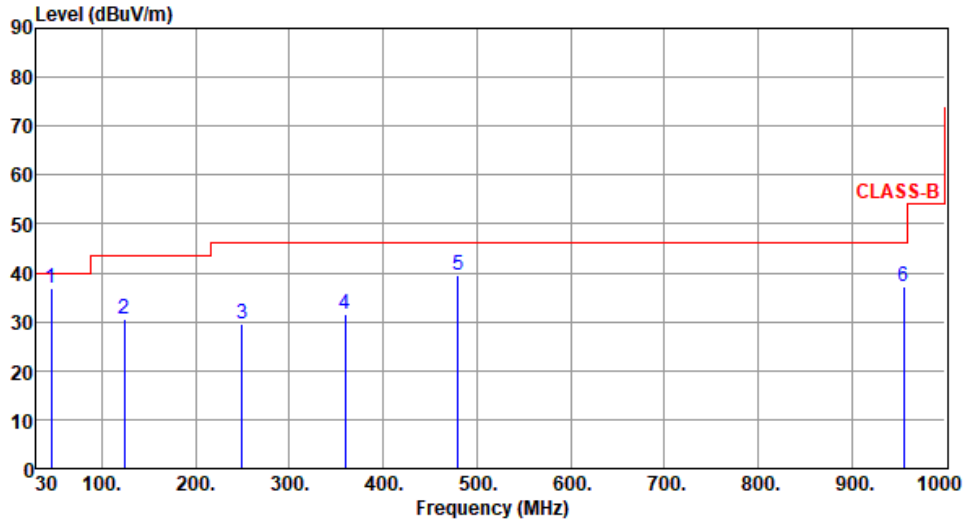
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Modulation	ax HE40	Test Freq. (MHz)	5755
Polarization	Vertical		

Test By :Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	45.58	36.81	40.00	-3.19	45.33	-8.52	QP	100	16
2	124.26	30.48	43.50	-13.02	40.77	-10.29	Peak	---	---
3	249.22	29.45	46.00	-16.55	39.53	-10.08	Peak	---	---
4	359.47	31.64	46.00	-14.36	38.32	-6.68	Peak	---	---
5	480.26	39.66	46.00	-6.34	43.41	-3.75	Peak	---	---
6	955.38	37.11	46.00	-8.89	32.68	4.43	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.



Emission Above 1GHz for 11a

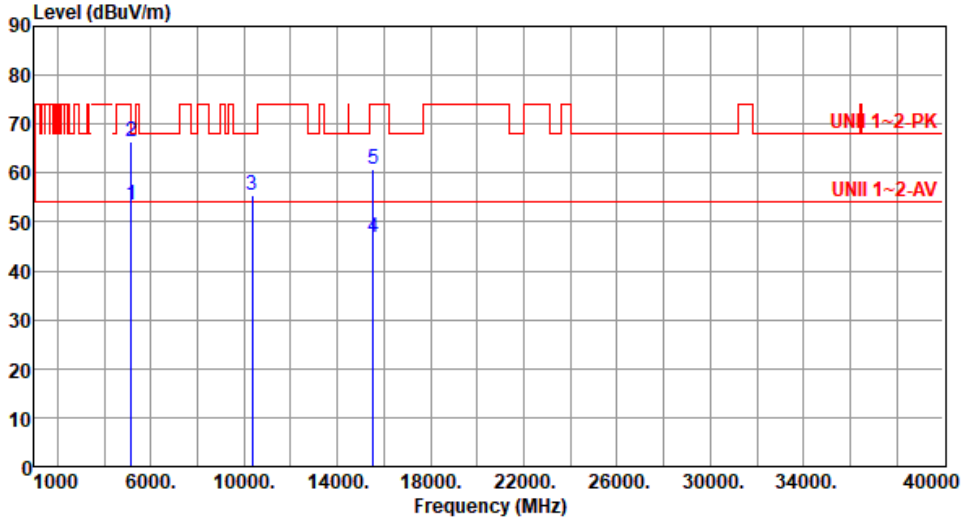
Modulation	11a	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By :Roger Lu      Temperature(°C):24      Humidity(%):65									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.66	54.00	-7.34	41.65	5.01	Average	336	324
2	5150.00	61.35	74.00	-12.65	56.34	5.01	Peak	336	324
3	10360.00	55.37	68.20	-12.83	41.16	14.21	Peak	100	90
4	15540.00	44.67	54.00	-9.33	31.03	13.64	Average	315	35
5	15540.00	58.77	74.00	-15.23	45.13	13.64	Peak	315	35

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	53.57	54.00	-0.43	48.56	5.01	Average	100	168
2	5150.00	66.50	74.00	-7.50	61.49	5.01	Peak	100	168
3	10360.00	55.48	68.20	-12.72	41.27	14.21	Peak	100	40
4	15540.00	46.76	54.00	-7.24	33.12	13.64	Average	336	213
5	15540.00	60.83	74.00	-13.17	47.19	13.64	Peak	336	213

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

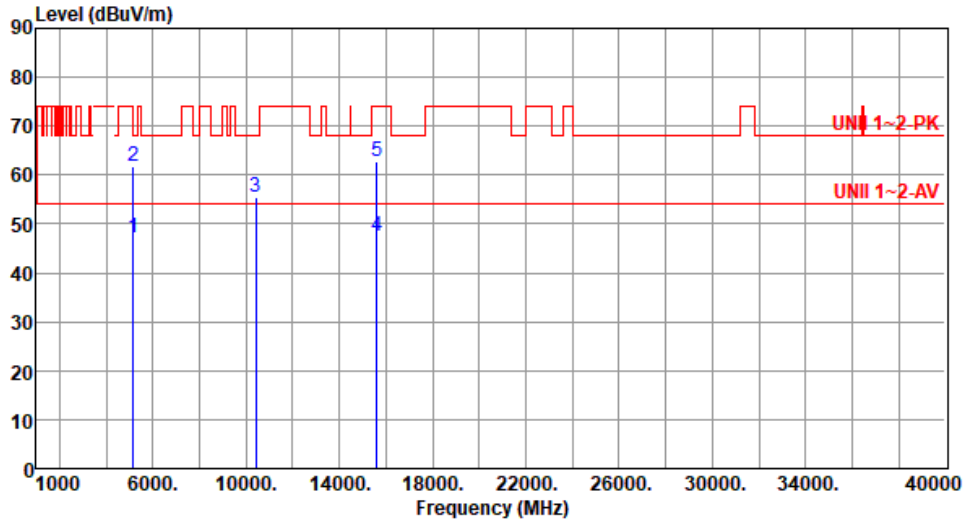
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.15	54.00	-6.85	42.14	5.01	Average	330	341
2	5150.00	61.69	74.00	-12.31	56.68	5.01	Peak	330	341
3	10400.00	55.55	68.20	-12.65	41.22	14.33	Peak	100	40
4	15600.00	47.62	54.00	-6.38	34.29	13.33	Average	318	38
5	15600.00	62.84	74.00	-11.16	49.51	13.33	Peak	318	38

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

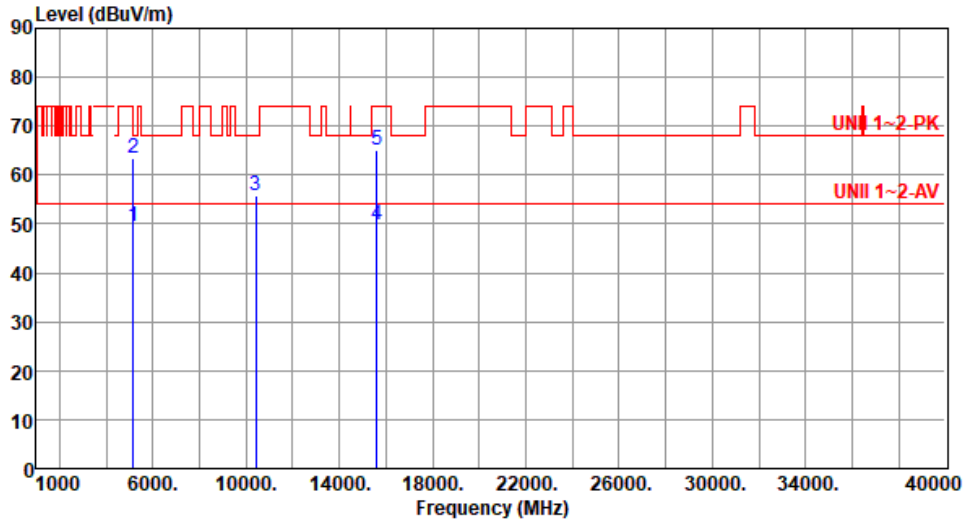
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	49.62	54.00	-4.38	44.61	5.01	Average	100	168
2	5150.00	63.43	74.00	-10.57	58.42	5.01	Peak	100	168
3	10400.00	55.74	68.20	-12.46	41.41	14.33	Peak	100	60
4	15600.00	49.93	54.00	-4.07	36.60	13.33	Average	339	215
5	15600.00	65.03	74.00	-8.97	51.70	13.33	Peak	339	215

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

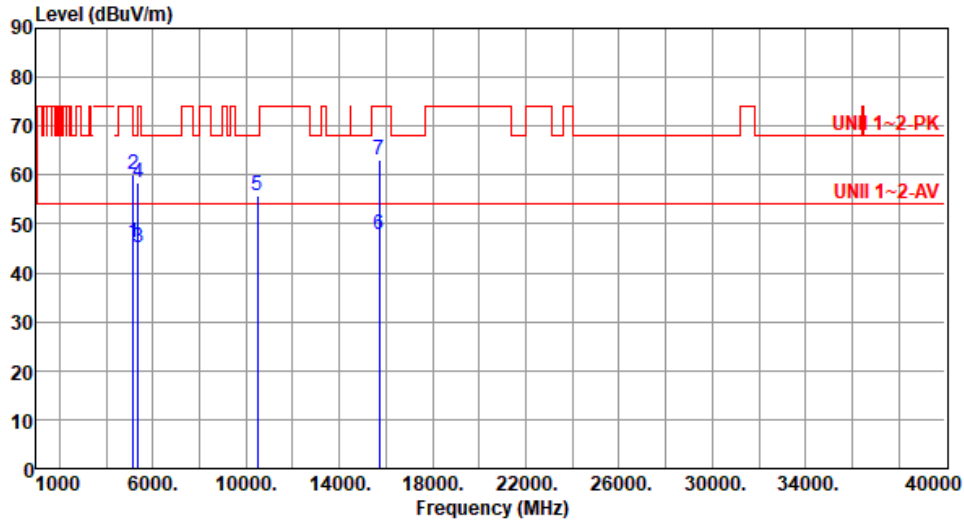
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.30	54.00	-7.70	41.29	5.01	Average	333	336
2	5150.00	60.15	74.00	-13.85	55.14	5.01	Peak	333	336
3	5350.00	45.09	54.00	-8.91	40.67	4.42	Average	333	336
4	5350.00	58.40	74.00	-15.60	53.98	4.42	Peak	333	336
5	10480.00	55.89	68.20	-12.31	41.43	14.46	Peak	100	40
6	15720.00	47.81	54.00	-6.19	34.39	13.42	Average	316	32
7	15720.00	63.02	74.00	-10.98	49.60	13.42	Peak	316	32

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

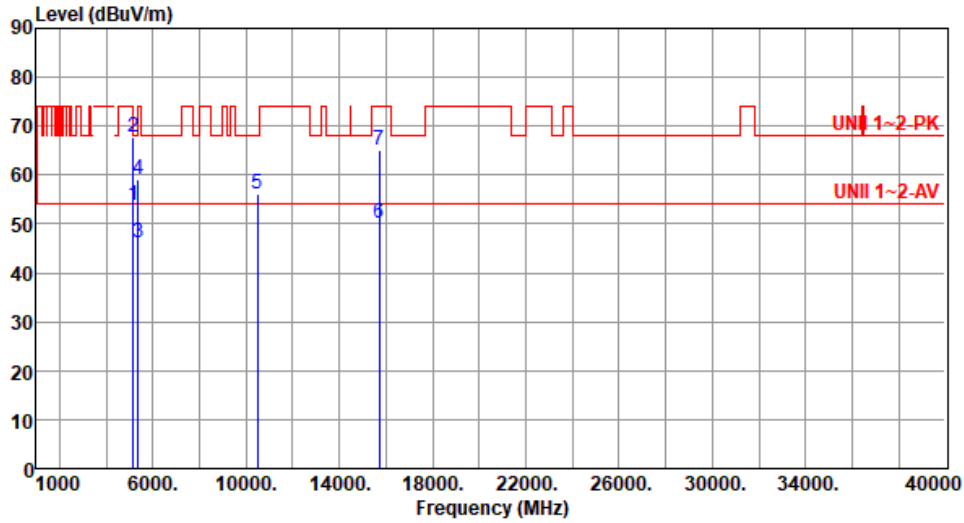
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	53.65	54.00	-0.35	48.64	5.01	Average	100	162
2	5150.00	67.73	74.00	-6.27	62.72	5.01	Peak	100	162
3	5350.00	46.29	54.00	-7.71	41.87	4.42	Average	100	162
4	5350.00	59.10	74.00	-14.90	54.68	4.42	Peak	100	162
5	10480.00	56.03	68.20	-12.17	41.57	14.46	Peak	100	55
6	15720.00	50.10	54.00	-3.90	36.68	13.42	Average	358	214
7	15720.00	65.18	74.00	-8.82	51.76	13.42	Peak	358	214

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

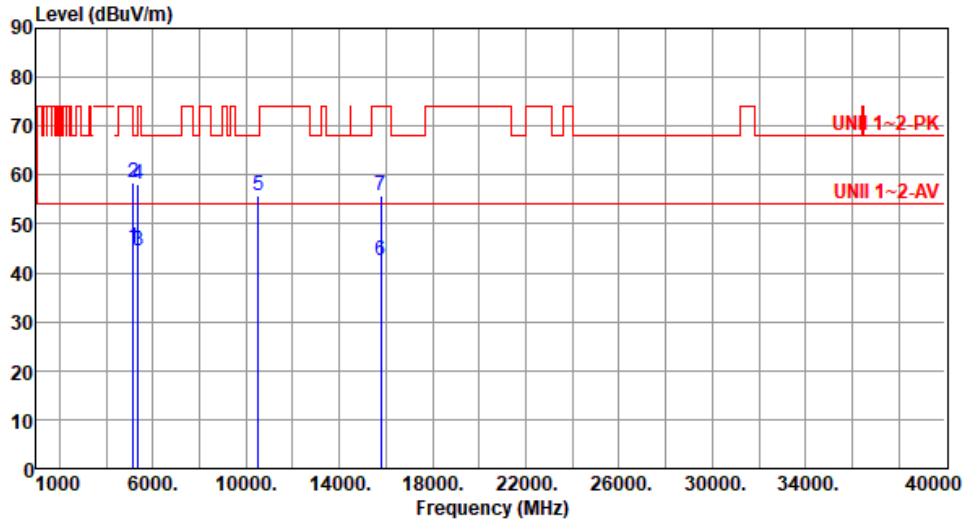
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.14	54.00	-8.86	40.13	5.01	Average	321	338
2	5150.00	58.58	74.00	-15.42	53.57	5.01	Peak	321	338
3	5350.00	44.60	54.00	-9.40	40.18	4.42	Average	321	338
4	5350.00	58.06	74.00	-15.94	53.64	4.42	Peak	321	338
5	10520.00	55.80	68.20	-12.40	41.33	14.47	Peak	100	90
6	15780.00	42.48	54.00	-11.52	29.00	13.48	Average	100	30
7	15780.00	55.63	74.00	-18.37	42.15	13.48	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

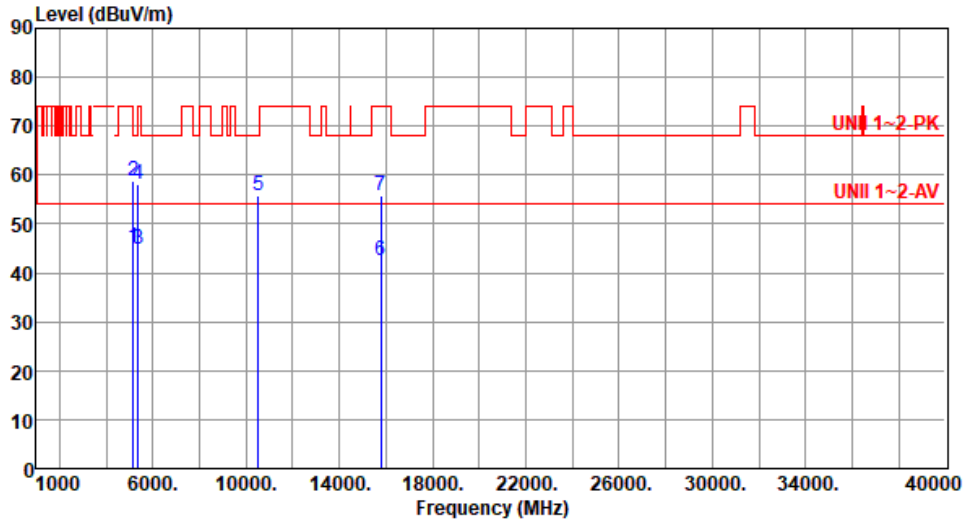
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.24	54.00	-8.76	40.23	5.01	Average	232	183
2	5150.00	58.80	74.00	-15.20	53.79	5.01	Peak	232	183
3	5350.00	44.77	54.00	-9.23	40.35	4.42	Average	232	183
4	5350.00	58.18	74.00	-15.82	53.76	4.42	Peak	232	183
5	10520.00	55.92	68.20	-12.28	41.45	14.47	Peak	100	60
6	15780.00	42.60	54.00	-11.40	29.12	13.48	Average	100	40
7	15780.00	55.76	74.00	-18.24	42.28	13.48	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

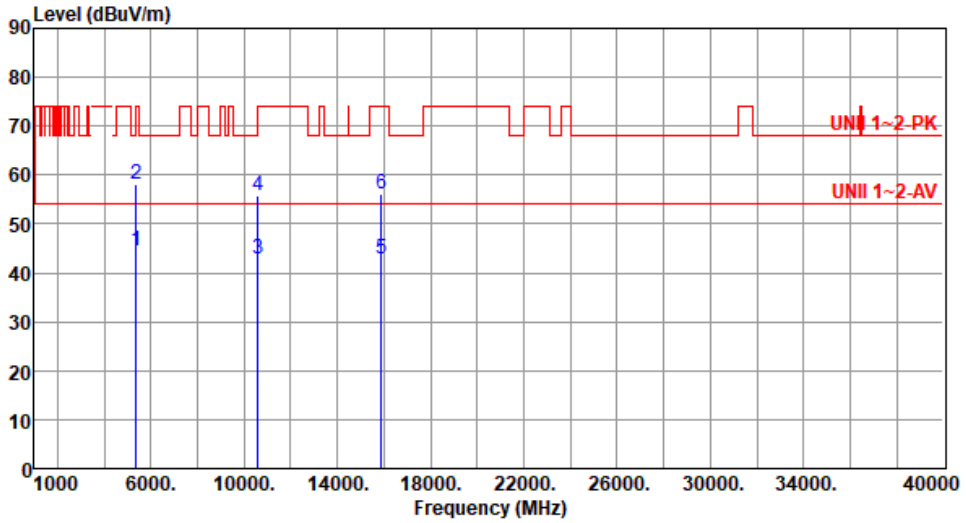
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.54	54.00	-9.46	40.12	4.42	Average	331	333
2	5350.00	58.08	74.00	-15.92	53.66	4.42	Peak	331	333
3	10600.00	42.77	54.00	-11.23	28.42	14.35	Average	100	60
4	10600.00	55.81	74.00	-18.19	41.46	14.35	Peak	100	60
5	15900.00	42.89	54.00	-11.11	29.32	13.57	Average	100	20
6	15900.00	56.06	74.00	-17.94	42.49	13.57	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

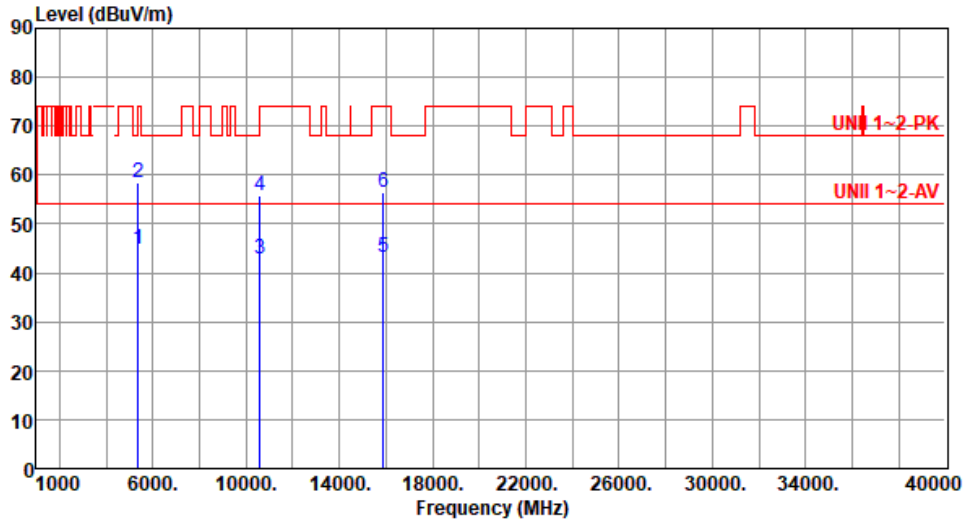
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.87	54.00	-9.13	40.45	4.42	Average	236	185
2	5350.00	58.58	74.00	-15.42	54.16	4.42	Peak	236	185
3	10600.00	42.91	54.00	-11.09	28.56	14.35	Average	100	40
4	10600.00	55.90	74.00	-18.10	41.55	14.35	Peak	100	40
5	15900.00	43.02	54.00	-10.98	29.45	13.57	Average	100	30
6	15900.00	56.56	74.00	-17.44	42.99	13.57	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

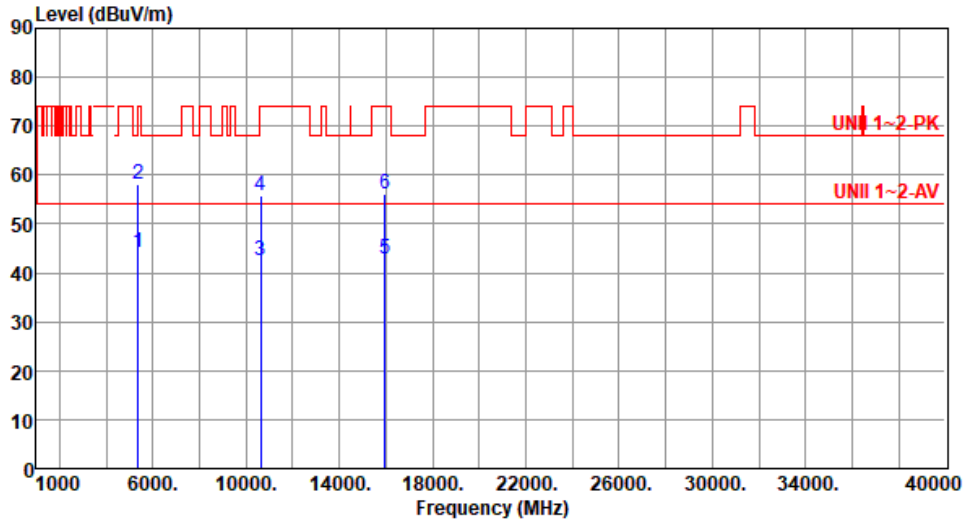
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.31	54.00	-9.69	39.89	4.42	Average	336	331
2	5350.00	58.08	74.00	-15.92	53.66	4.42	Peak	336	331
3	10640.00	42.66	54.00	-11.34	28.29	14.37	Average	100	20
4	10640.00	55.81	74.00	-18.19	41.44	14.37	Peak	100	20
5	15960.00	42.81	54.00	-11.19	29.13	13.68	Average	100	60
6	15960.00	56.02	74.00	-17.98	42.34	13.68	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

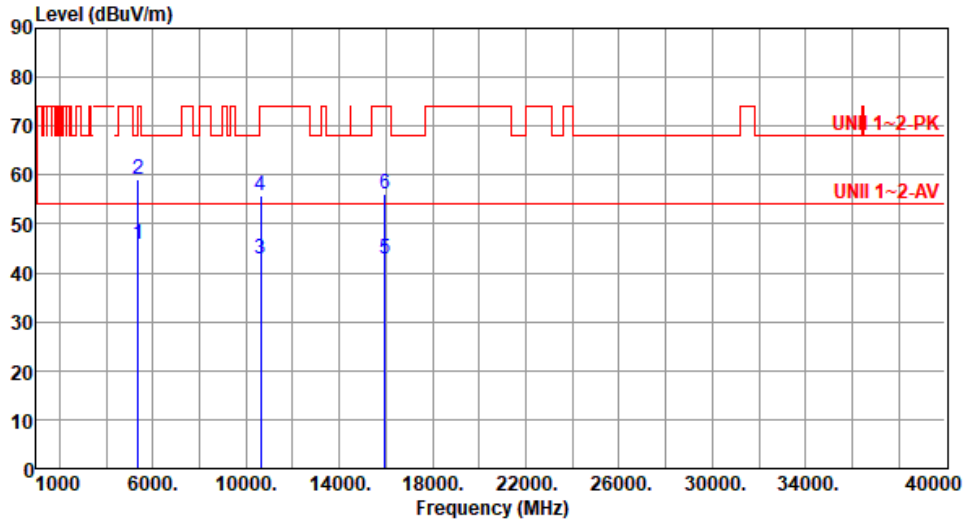
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	45.98	54.00	-8.02	41.56	4.42	Average	233	181
2	5350.00	59.01	74.00	-14.99	54.59	4.42	Peak	233	181
3	10640.00	42.79	54.00	-11.21	28.42	14.37	Average	100	30
4	10640.00	55.95	74.00	-18.05	41.58	14.37	Peak	100	30
5	15960.00	42.99	54.00	-11.01	29.31	13.68	Average	100	80
6	15960.00	56.23	74.00	-17.77	42.55	13.68	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

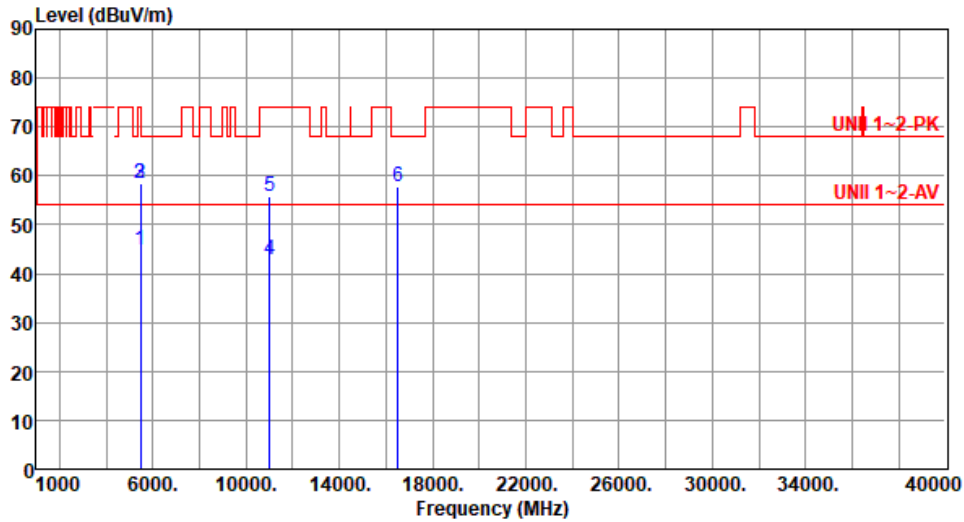
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.90	54.00	-9.10	40.23	4.67	Average	123	198
2	5460.00	58.32	74.00	-15.68	53.65	4.67	Peak	123	198
3	5470.00	58.45	68.20	-9.75	53.75	4.70	Peak	123	198
4	11000.00	42.80	54.00	-11.20	28.15	14.65	Average	100	20
5	11000.00	55.80	74.00	-18.20	41.15	14.65	Peak	100	20
6	16500.00	57.89	68.20	-10.31	41.55	16.34	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

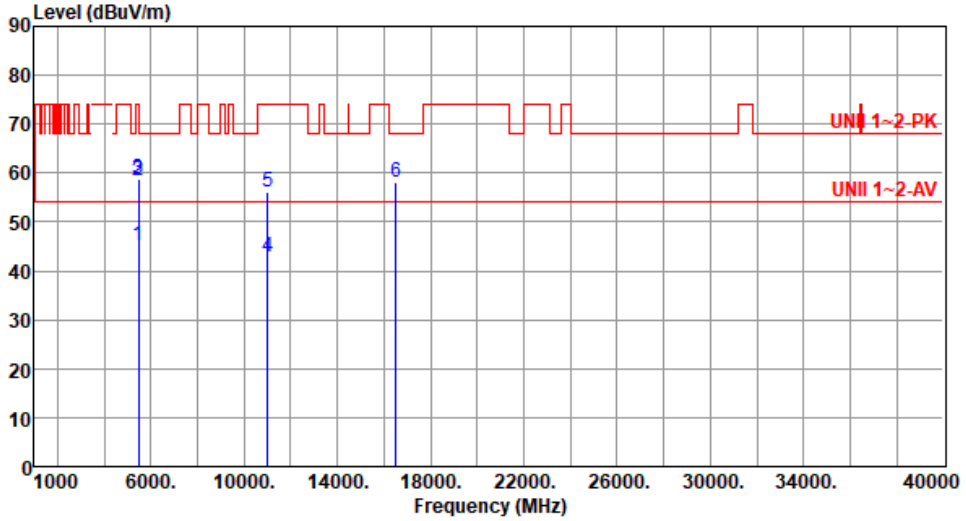
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.13	54.00	-8.87	40.46	4.67	Average	145	261
2	5460.00	58.56	74.00	-15.44	53.89	4.67	Peak	145	261
3	5470.00	58.85	68.20	-9.35	54.15	4.70	Peak	145	261
4	11000.00	42.97	54.00	-11.03	28.32	14.65	Average	100	30
5	11000.00	55.96	74.00	-18.04	41.31	14.65	Peak	100	30
6	16500.00	58.02	68.20	-10.18	41.68	16.34	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

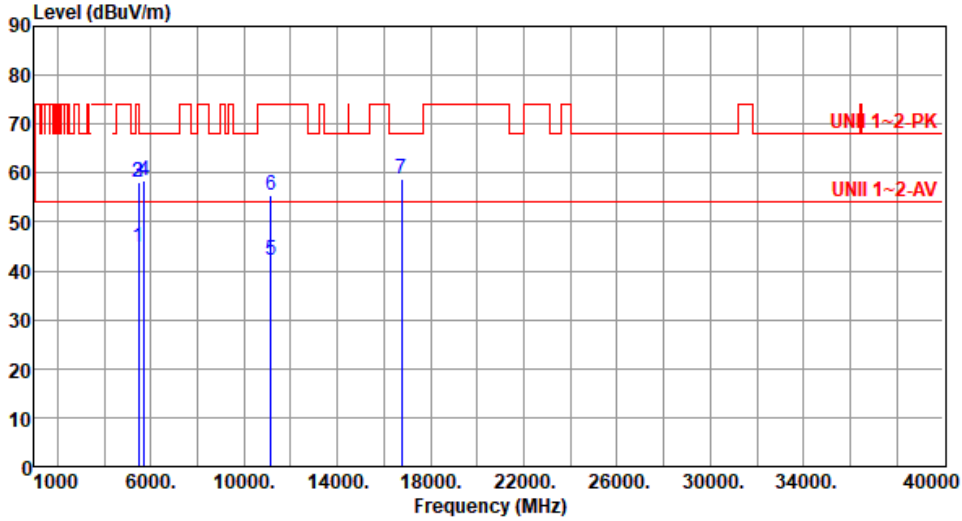
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.79	54.00	-9.21	40.12	4.67	Average	120	194
2	5460.00	57.97	74.00	-16.03	53.30	4.67	Peak	120	194
3	5470.00	58.26	68.20	-9.94	53.56	4.70	Peak	120	194
4	5725.00	58.61	68.20	-9.59	53.44	5.17	Peak	120	194
5	11160.00	42.29	54.00	-11.71	28.32	13.97	Average	100	30
6	11160.00	55.42	74.00	-18.58	41.45	13.97	Peak	100	30
7	16740.00	58.85	68.20	-9.35	41.68	17.17	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

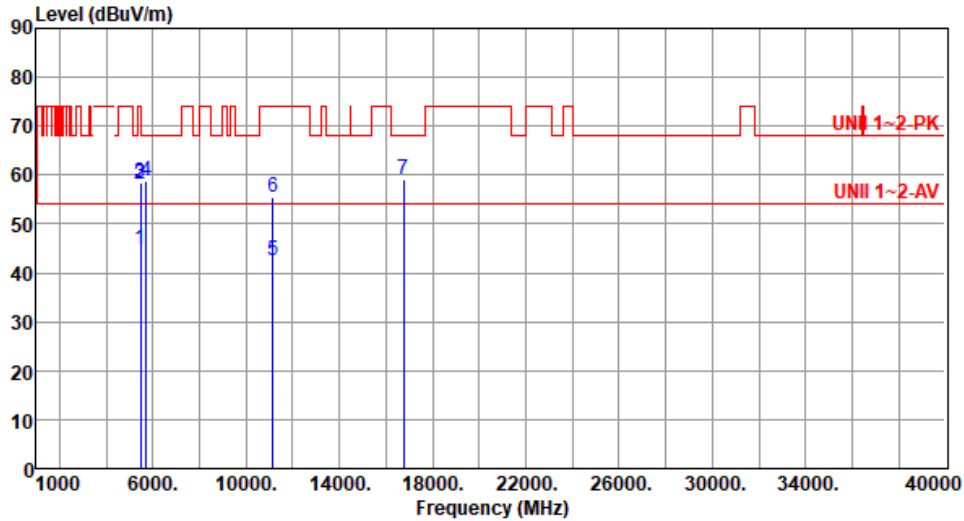
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.93	54.00	-9.07	40.26	4.67	Average	138	265
2	5460.00	58.14	74.00	-15.86	53.47	4.67	Peak	138	265
3	5470.00	58.47	68.20	-9.73	53.77	4.70	Peak	138	265
4	5725.00	58.82	68.20	-9.38	53.65	5.17	Peak	138	265
5	11160.00	42.42	54.00	-11.58	28.45	13.97	Average	100	40
6	11160.00	55.61	74.00	-18.39	41.64	13.97	Peak	100	40
7	16740.00	59.07	68.20	-9.13	41.90	17.17	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

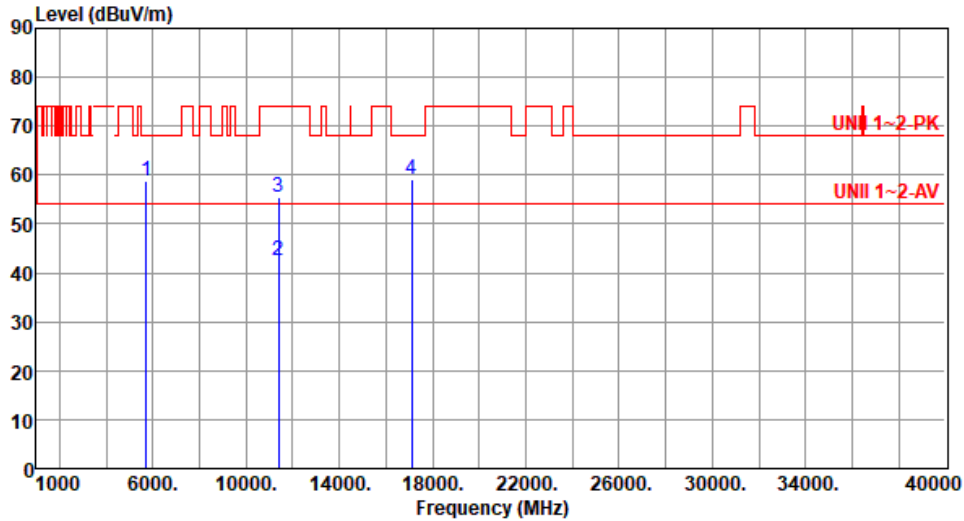
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	58.82	68.20	-9.38	53.65	5.17	Peak	125	199
2	11400.00	42.47	54.00	-11.53	28.33	14.14	Average	100	30
3	11400.00	55.58	74.00	-18.42	41.44	14.14	Peak	100	30
4	17100.00	59.08	68.20	-9.12	41.66	17.42	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

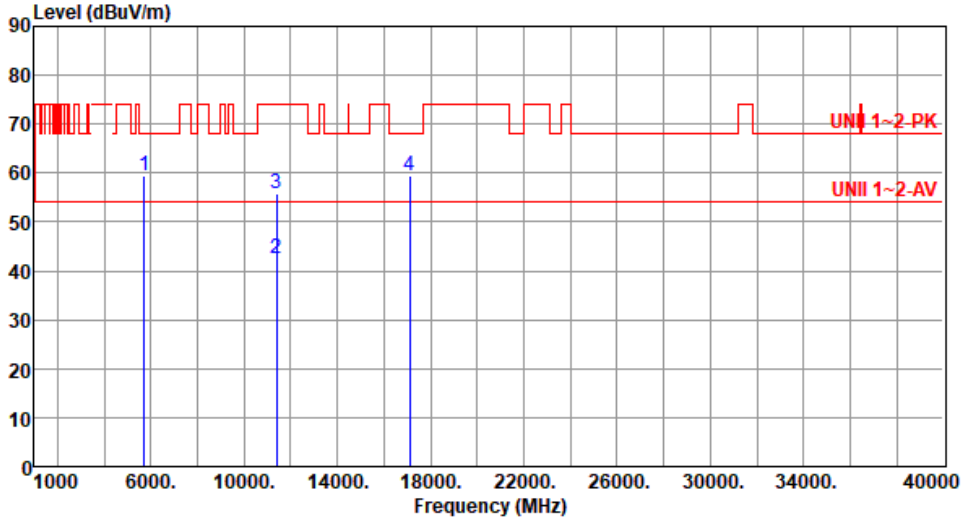
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	59.39	68.20	-8.81	54.22	5.17	Peak	102	249
2	11400.00	42.60	54.00	-11.40	28.46	14.14	Average	100	40
3	11400.00	55.71	74.00	-18.29	41.57	14.14	Peak	100	40
4	17100.00	59.30	68.20	-8.90	41.88	17.42	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

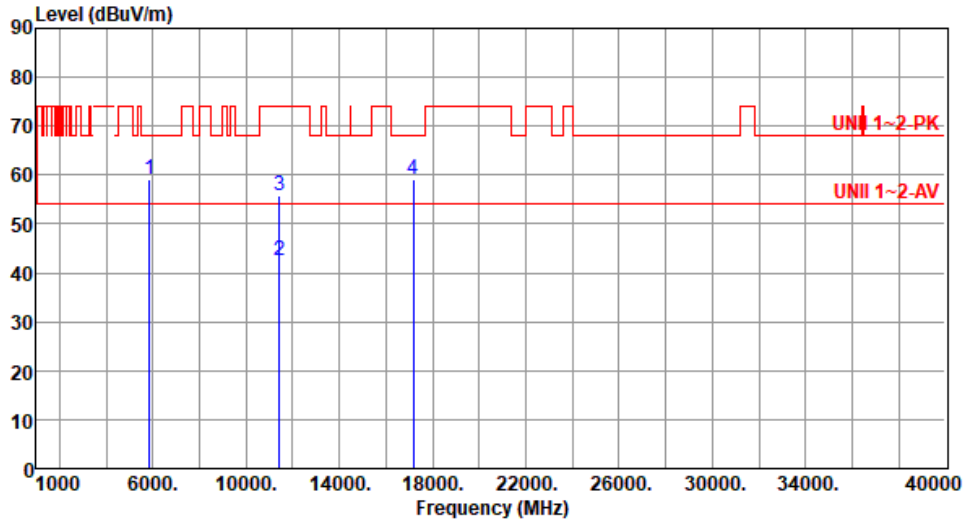
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	59.10	68.20	-9.10	53.45	5.65	Peak	123	192
2	11440.00	42.58	54.00	-11.42	28.32	14.26	Average	100	40
3	11440.00	55.72	74.00	-18.28	41.46	14.26	Peak	100	40
4	17160.00	59.13	68.20	-9.07	41.71	17.42	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

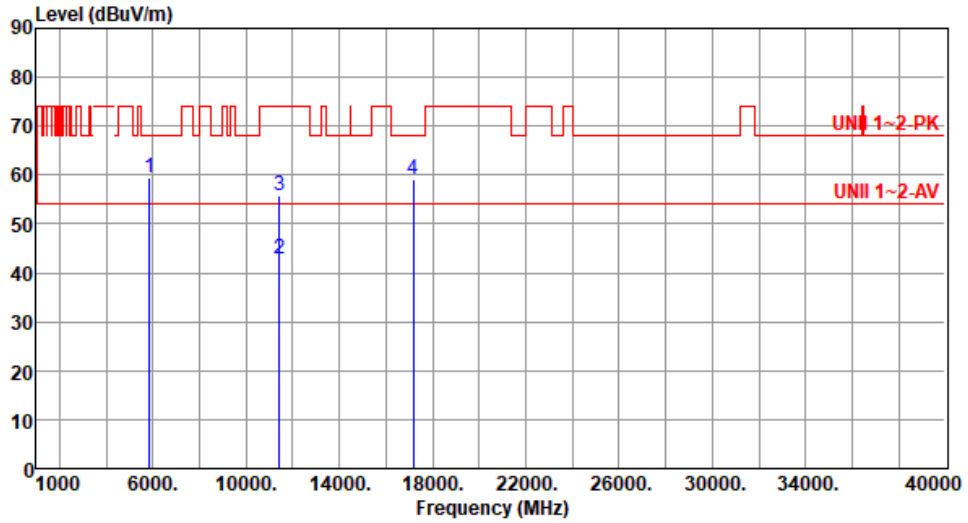
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5720
Polarization	Vertical		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	59.30	68.20	-8.90	53.65	5.65	Peak	131	262
2	11440.00	42.72	54.00	-11.28	28.46	14.26	Average	100	30
3	11440.00	55.84	74.00	-18.16	41.58	14.26	Peak	100	30
4	17160.00	59.04	68.20	-9.16	41.62	17.42	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

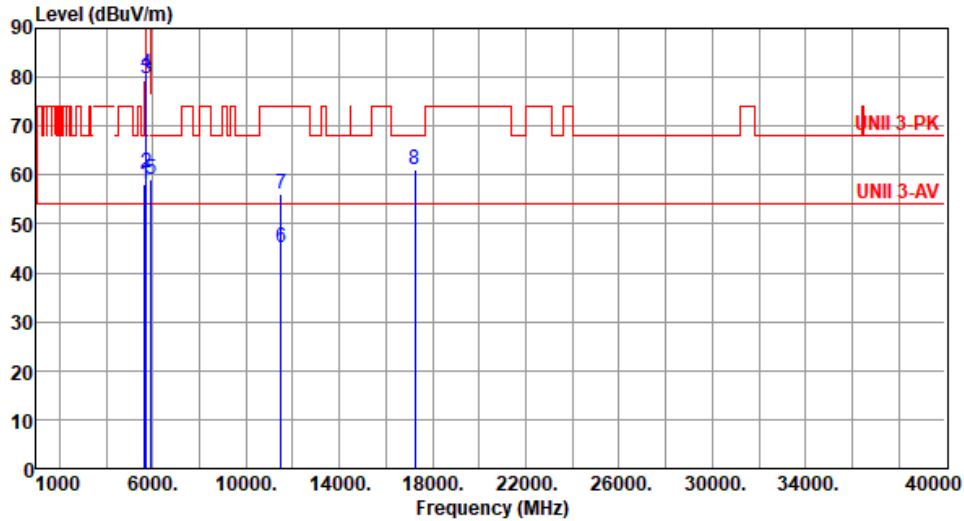
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.22	68.20	-9.98	53.41	4.81	Peak	126	195
2	5700.00	60.48	105.20	-44.72	55.46	5.02	Peak	126	195
3	5720.00	79.73	110.80	-31.07	74.59	5.14	Peak	126	195
4	5725.00	80.56	122.20	-41.64	75.39	5.17	Peak	126	195
5	5925.00	59.19	68.20	-9.01	53.58	5.61	Peak	126	195
6	11490.00	45.18	54.00	-8.82	30.79	14.39	Average	165	88
7	11490.00	56.15	74.00	-17.85	41.76	14.39	Peak	165	88
8	17235.00	61.14	68.20	-7.06	43.68	17.46	Peak	100	282

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

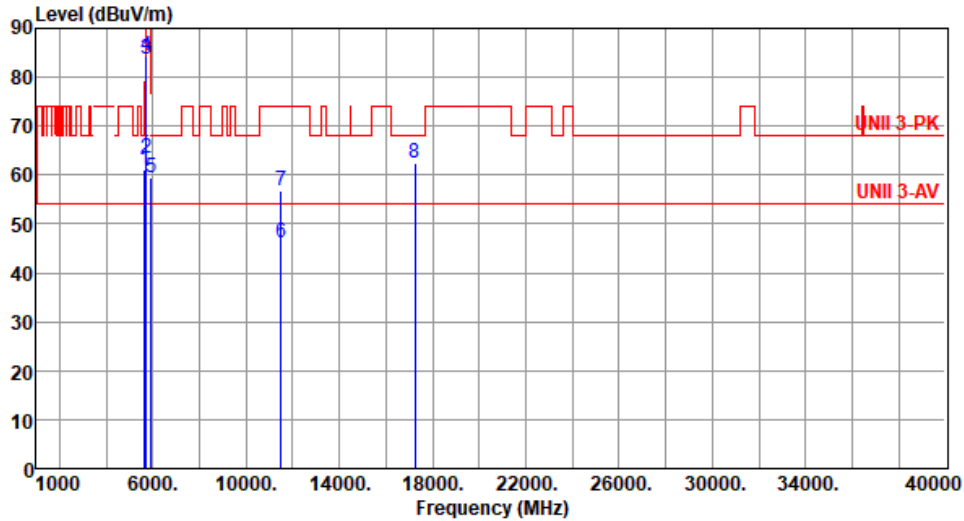
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.06	68.20	-7.14	56.25	4.81	Peak	109	259
2	5700.00	63.54	105.20	-41.66	58.52	5.02	Peak	109	259
3	5720.00	83.84	110.80	-26.96	78.70	5.14	Peak	109	259
4	5725.00	84.30	122.20	-37.90	79.13	5.17	Peak	109	259
5	5925.00	59.59	68.20	-8.61	53.98	5.61	Peak	109	259
6	11490.00	46.31	54.00	-7.69	31.92	14.39	Average	145	179
7	11490.00	56.82	74.00	-17.18	42.43	14.39	Peak	145	179
8	17235.00	62.29	68.20	-5.91	44.83	17.46	Peak	157	135

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

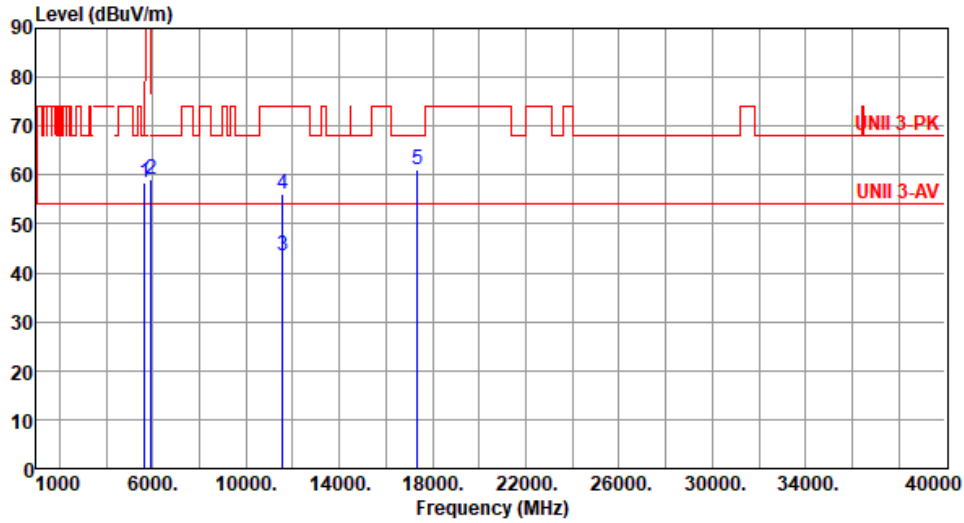
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.36	68.20	-9.84	53.55	4.81	Peak	124	198
2	5925.00	59.16	68.20	-9.04	53.55	5.61	Peak	124	198
3	11570.00	43.60	54.00	-10.40	29.35	14.25	Average	168	90
4	11570.00	56.02	74.00	-17.98	41.77	14.25	Peak	168	90
5	17355.00	61.08	68.20	-7.12	43.17	17.91	Peak	100	283

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

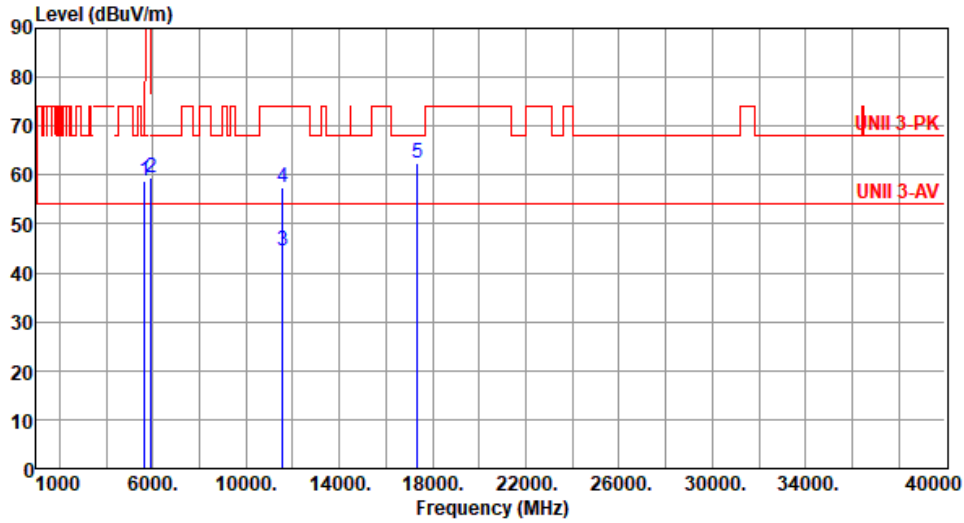
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.65	68.20	-9.55	53.84	4.81	Peak	111	259
2	5925.00	59.40	68.20	-8.80	53.79	5.61	Peak	111	259
3	11570.00	44.52	54.00	-9.48	30.27	14.25	Average	154	186
4	11570.00	57.33	74.00	-16.67	43.08	14.25	Peak	154	186
5	17355.00	62.44	68.20	-5.76	44.53	17.91	Peak	166	105

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

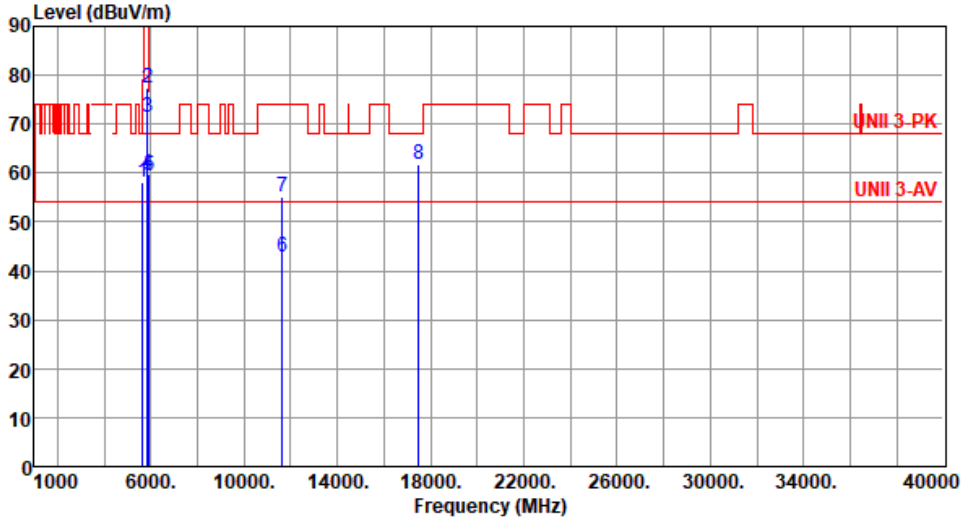
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.06	68.20	-10.14	53.25	4.81	Peak	123	194
2	5850.00	77.51	122.20	-44.69	71.86	5.65	Peak	123	194
3	5855.00	71.24	110.80	-39.56	65.59	5.65	Peak	123	194
4	5875.00	59.81	105.20	-45.39	54.15	5.66	Peak	123	194
5	5925.00	59.40	68.20	-8.80	53.79	5.61	Peak	123	194
6	11650.00	42.93	54.00	-11.07	29.03	13.90	Average	162	89
7	11650.00	55.20	74.00	-18.80	41.30	13.90	Peak	162	89
8	17475.00	61.73	68.20	-6.47	43.18	18.55	Peak	100	279

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

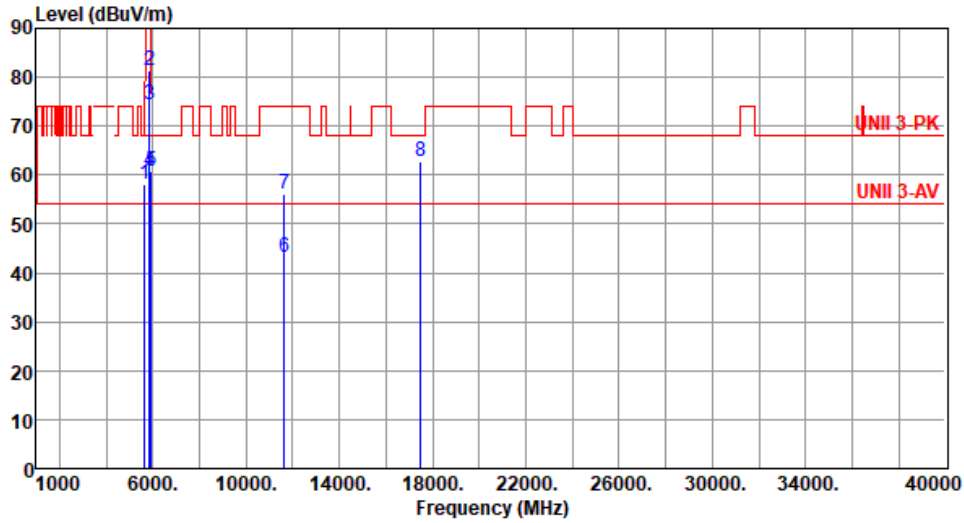
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.25	68.20	-9.95	53.44	4.81	Peak	118	263
2	5850.00	81.43	122.20	-40.77	75.78	5.65	Peak	118	263
3	5855.00	74.30	110.80	-36.50	68.65	5.65	Peak	118	263
4	5875.00	60.77	105.20	-44.43	55.11	5.66	Peak	118	263
5	5925.00	60.87	68.20	-7.33	55.26	5.61	Peak	118	263
6	11650.00	43.30	54.00	-10.70	29.40	13.90	Average	148	184
7	11650.00	55.96	74.00	-18.04	42.06	13.90	Peak	148	184
8	17475.00	62.75	68.20	-5.45	44.20	18.55	Peak	161	103

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Emission Above 1GHz for ax HE20

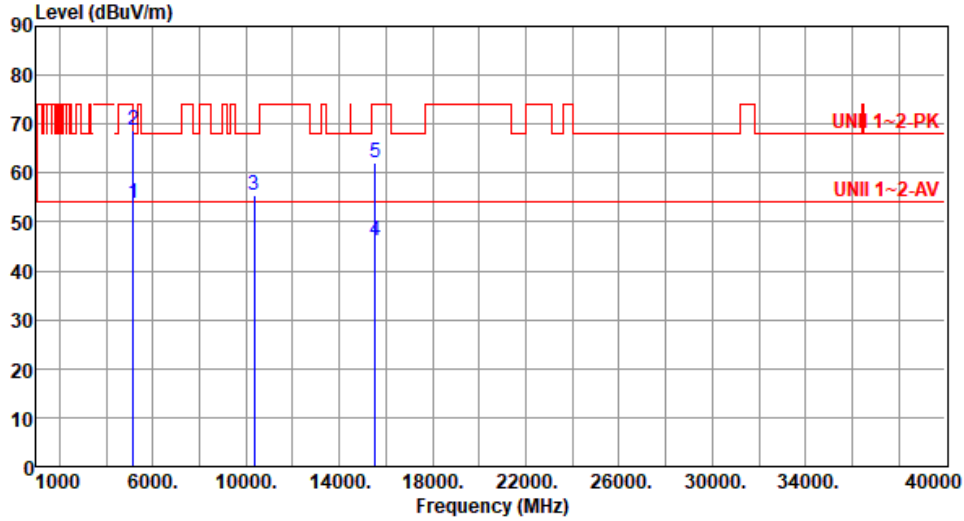
Modulation	ax HE20	Test Freq. (MHz)	5180						
Polarization	Horizontal								
Test By :Roger Lu      Temperature(°C):24      Humidity(%):65									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.47	54.00	-7.53	41.46	5.01	Average	336	331
2	5150.00	59.57	74.00	-14.43	54.56	5.01	Peak	336	331
3	10360.00	55.27	68.20	-12.93	41.06	14.21	Peak	100	20
4	15540.00	43.83	54.00	-10.17	30.19	13.64	Average	316	42
5	15540.00	58.22	74.00	-15.78	44.58	13.64	Peak	316	42

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5180
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	53.66	54.00	-0.34	48.65	5.01	Average	100	189
2	5150.00	68.82	74.00	-5.18	63.81	5.01	Peak	100	189
3	10360.00	55.35	68.20	-12.85	41.14	14.21	Peak	100	50
4	15540.00	46.06	54.00	-7.94	32.42	13.64	Average	335	219
5	15540.00	62.20	74.00	-11.80	48.56	13.64	Peak	335	219

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

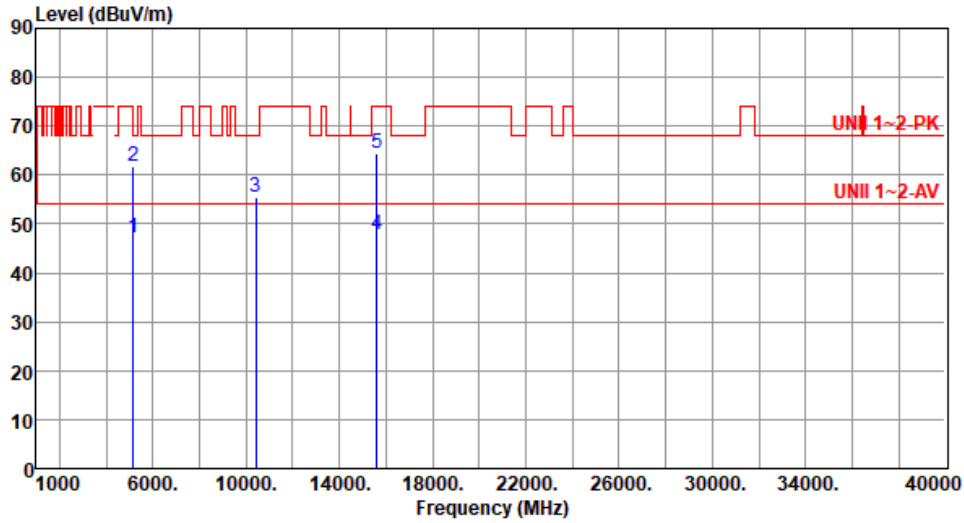
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5200
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.05	54.00	-6.95	42.04	5.01	Average	336	333
2	5150.00	61.61	74.00	-12.39	56.60	5.01	Peak	336	333
3	10400.00	55.46	68.20	-12.74	41.13	14.33	Peak	100	60
4	15600.00	47.78	54.00	-6.22	34.45	13.33	Average	315	39
5	15600.00	64.38	74.00	-9.62	51.05	13.33	Peak	315	39

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

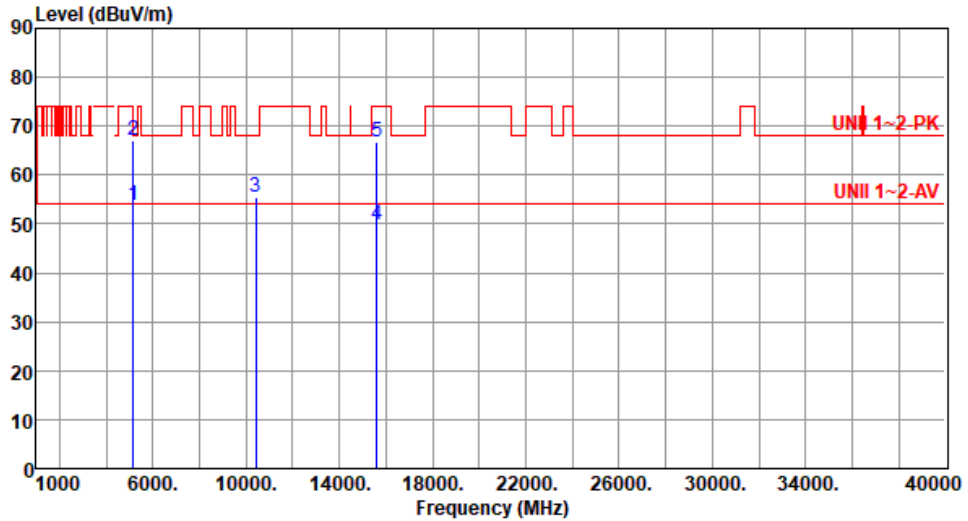
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Modulation	ax HE20	Test Freq. (MHz)	5200
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	53.64	54.00	-0.36	48.63	5.01	Average	100	164
2	5150.00	66.95	74.00	-7.05	61.94	5.01	Peak	100	164
3	10400.00	55.61	68.20	-12.59	41.28	14.33	Peak	100	40
4	15600.00	49.98	54.00	-4.02	36.65	13.33	Average	333	216
5	15600.00	66.76	74.00	-7.24	53.43	13.33	Peak	333	216

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

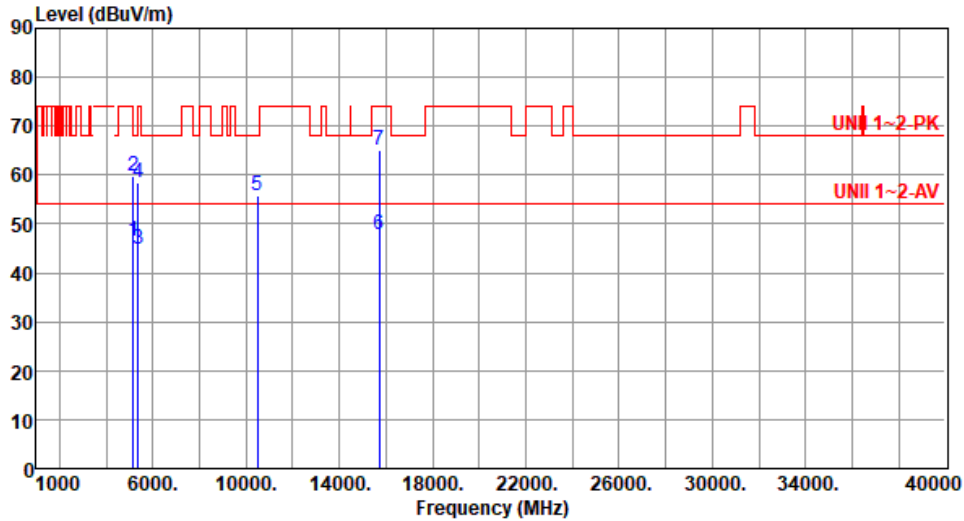
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5240
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.51	54.00	-7.49	41.50	5.01	Average	333	334
2	5150.00	59.68	74.00	-14.32	54.67	5.01	Peak	333	334
3	5350.00	44.98	54.00	-9.02	40.56	4.42	Average	333	334
4	5350.00	58.45	74.00	-15.55	54.03	4.42	Peak	333	334
5	10480.00	55.75	68.20	-12.45	41.29	14.46	Peak	100	80
6	15720.00	47.74	54.00	-6.26	34.32	13.42	Average	313	34
7	15720.00	65.02	74.00	-8.98	51.60	13.42	Peak	313	34

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

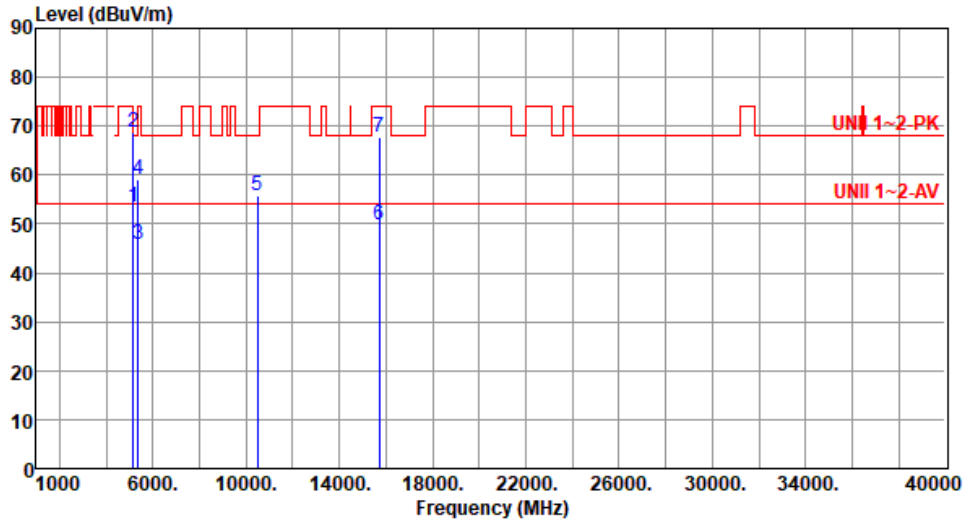
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5240
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	53.34	54.00	-0.66	48.33	5.01	Average	100	165
2	5150.00	68.89	74.00	-5.11	63.88	5.01	Peak	100	165
3	5350.00	45.70	54.00	-8.30	41.28	4.42	Average	100	165
4	5350.00	59.01	74.00	-14.99	54.59	4.42	Peak	100	165
5	10480.00	55.90	68.20	-12.30	41.44	14.46	Peak	100	90
6	15720.00	49.88	54.00	-4.12	36.46	13.42	Average	335	219
7	15720.00	67.74	74.00	-6.26	54.32	13.42	Peak	335	219

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

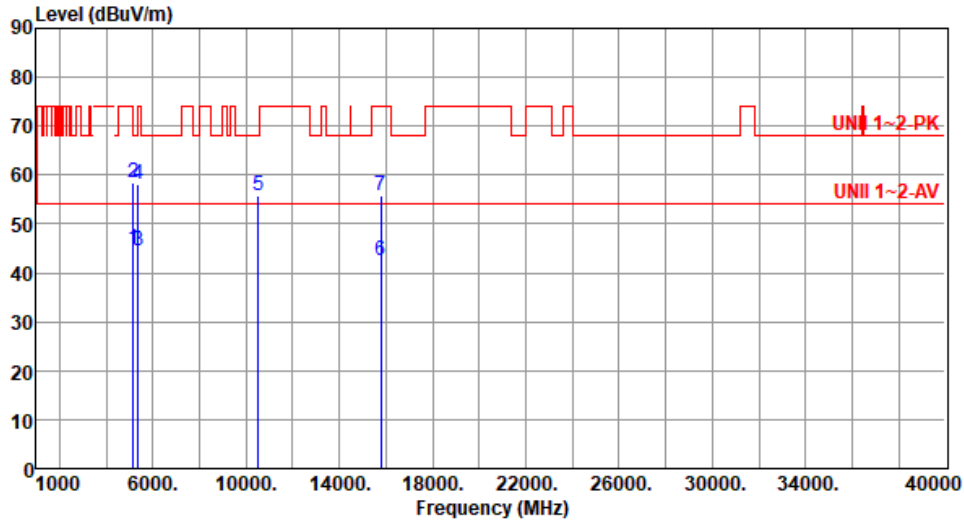
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5260
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	44.89	54.00	-9.11	39.88	5.01	Average	333	334
2	5150.00	58.31	74.00	-15.69	53.30	5.01	Peak	333	334
3	5350.00	44.44	54.00	-9.56	40.02	4.42	Average	333	334
4	5350.00	58.07	74.00	-15.93	53.65	4.42	Peak	333	334
5	10520.00	55.92	68.20	-12.28	41.45	14.47	Peak	100	30
6	15780.00	42.50	54.00	-11.50	29.02	13.48	Average	100	20
7	15780.00	55.63	74.00	-18.37	42.15	13.48	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

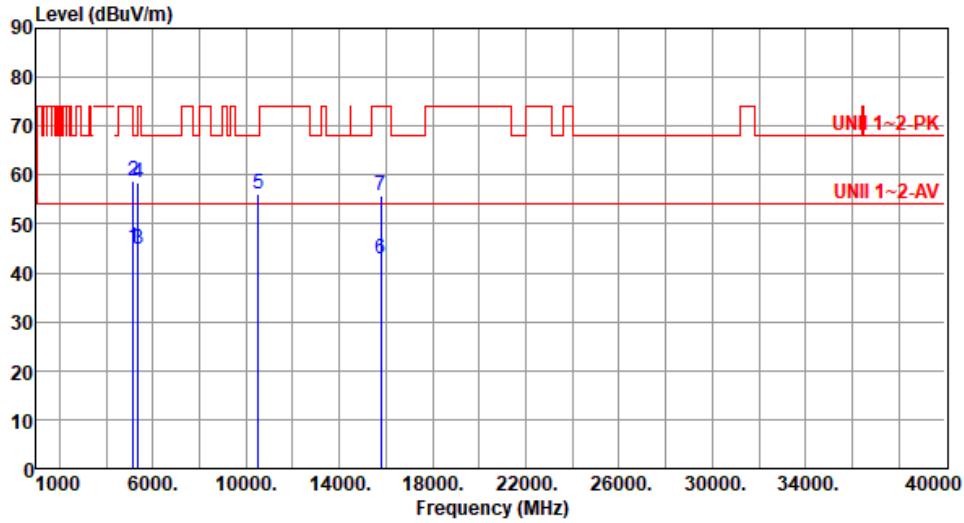
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5260
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.17	54.00	-8.83	40.16	5.01	Average	236	188
2	5150.00	58.68	74.00	-15.32	53.67	5.01	Peak	236	188
3	5350.00	44.70	54.00	-9.30	40.28	4.42	Average	236	188
4	5350.00	58.30	74.00	-15.70	53.88	4.42	Peak	236	188
5	10520.00	56.16	68.20	-12.04	41.69	14.47	Peak	100	250
6	15780.00	42.71	54.00	-11.29	29.23	13.48	Average	100	60
7	15780.00	55.85	74.00	-18.15	42.37	13.48	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

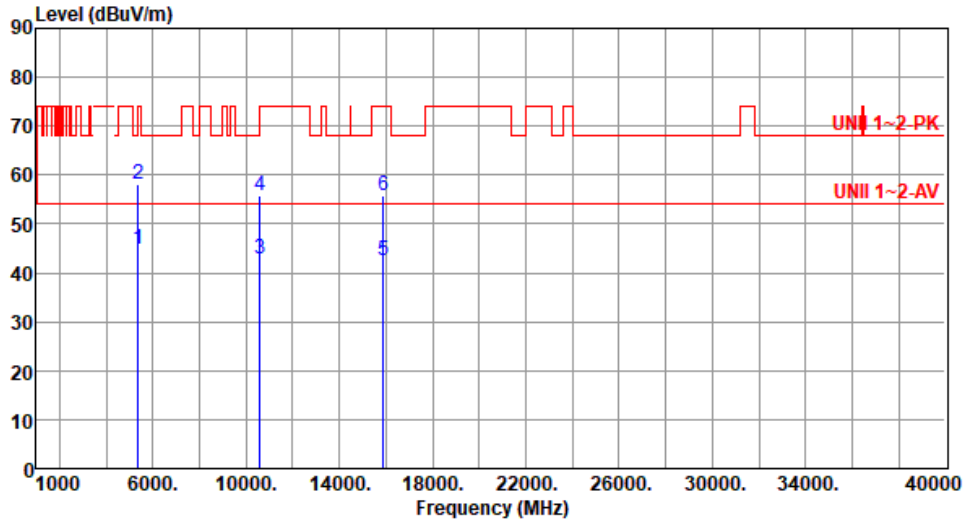
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5300
Polarization	Horizontal		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.70	54.00	-9.30	40.28	4.42	Average	330	326
2	5350.00	58.18	74.00	-15.82	53.76	4.42	Peak	330	326
3	10600.00	42.80	54.00	-11.20	28.45	14.35	Average	100	40
4	10600.00	55.78	74.00	-18.22	41.43	14.35	Peak	100	40
5	15900.00	42.44	54.00	-11.56	28.87	13.57	Average	100	20
6	15900.00	55.90	74.00	-18.10	42.33	13.57	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

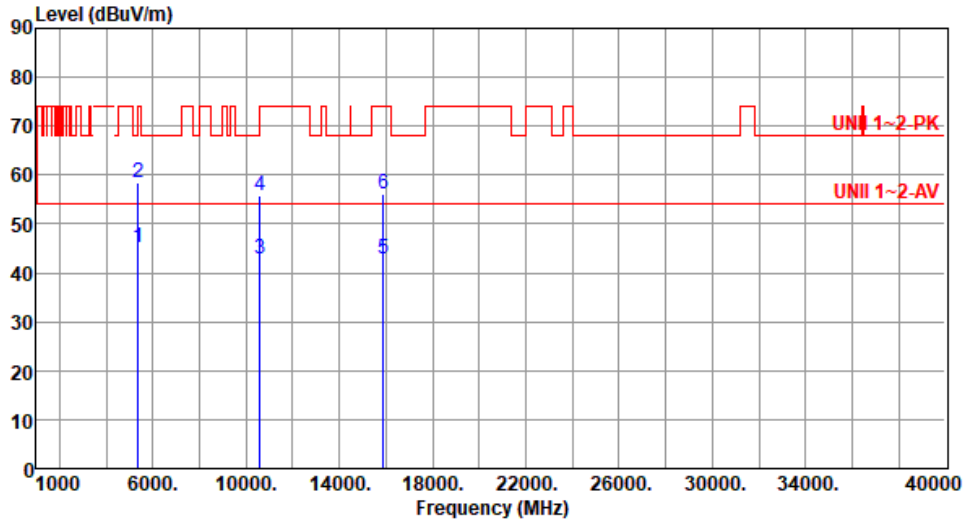
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5300
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	45.09	54.00	-8.91	40.67	4.42	Average	241	179
2	5350.00	58.48	74.00	-15.52	54.06	4.42	Peak	241	179
3	10600.00	42.96	54.00	-11.04	28.61	14.35	Average	100	30
4	10600.00	55.93	74.00	-18.07	41.58	14.35	Peak	100	30
5	15900.00	42.73	54.00	-11.27	29.16	13.57	Average	100	40
6	15900.00	56.06	74.00	-17.94	42.49	13.57	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

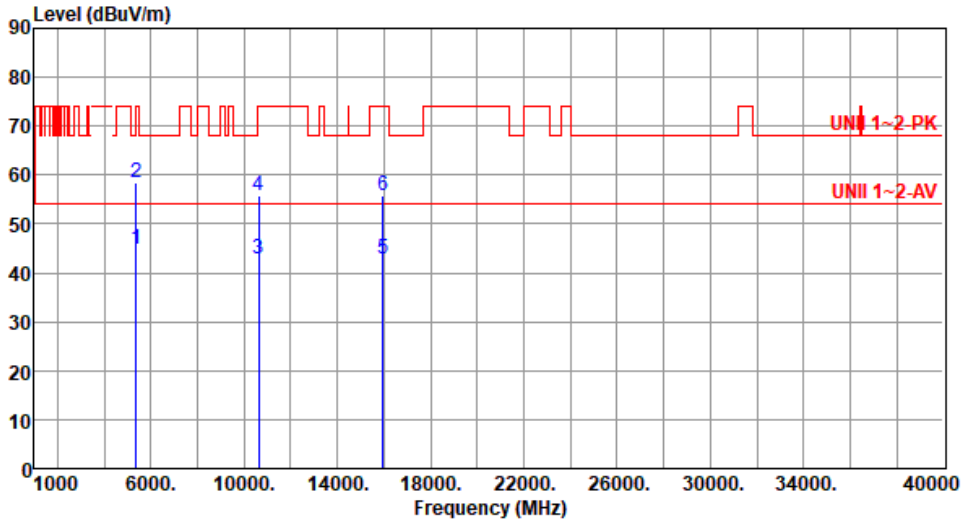
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5320
Polarization	Horizontal		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	44.98	54.00	-9.02	40.56	4.42	Average	332	334
2	5350.00	58.29	74.00	-15.71	53.87	4.42	Peak	332	334
3	10640.00	42.79	54.00	-11.21	28.42	14.37	Average	100	20
4	10640.00	55.69	74.00	-18.31	41.32	14.37	Peak	100	20
5	15960.00	42.70	54.00	-11.30	29.02	13.68	Average	100	60
6	15960.00	55.81	74.00	-18.19	42.13	13.68	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

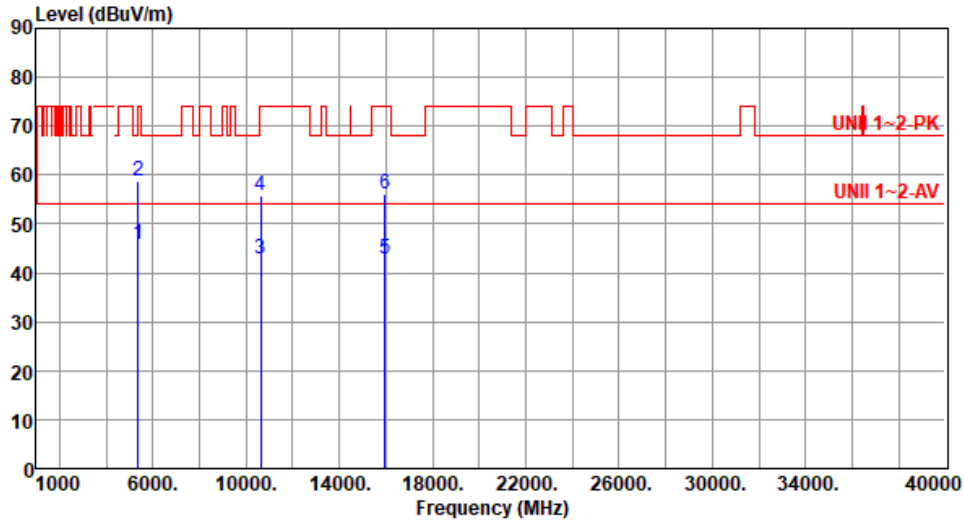
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Modulation	ax HE20	Test Freq. (MHz)	5320
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	45.76	54.00	-8.24	41.34	4.42	Average	236	186
2	5350.00	58.68	74.00	-15.32	54.26	4.42	Peak	236	186
3	10640.00	42.93	54.00	-11.07	28.56	14.37	Average	100	40
4	10640.00	55.85	74.00	-18.15	41.48	14.37	Peak	100	40
5	15960.00	42.90	54.00	-11.10	29.22	13.68	Average	100	30
6	15960.00	56.05	74.00	-17.95	42.37	13.68	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

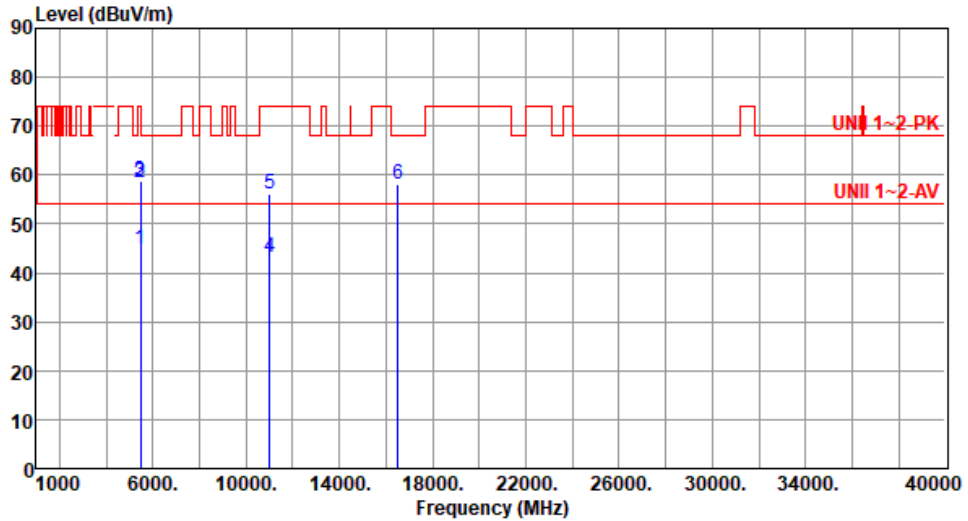


<b>Modulation</b>	ax HE20	<b>Test Freq. (MHz)</b>	5500						
<b>Polarization</b>	Horizontal								
Test By : Roger Lu      Temperature(°C):23      Humidity(%):67									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	5460.00	44.79	54.00	-9.21	40.12	4.67	Average	123	195
2	5460.00	58.32	74.00	-15.68	53.65	4.67	Peak	123	195
3	5470.00	58.45	68.20	-9.75	53.75	4.70	Peak	123	195
4	11000.00	42.97	54.00	-11.03	28.32	14.65	Average	100	30
5	11000.00	55.97	74.00	-18.03	41.32	14.65	Peak	100	30
6	16500.00	57.91	68.20	-10.29	41.57	16.34	Peak	100	60
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).									



Modulation	ax HE20	Test Freq. (MHz)	5500
Polarization	Vertical		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.90	54.00	-9.10	40.23	4.67	Average	142	259
2	5460.00	58.43	74.00	-15.57	53.76	4.67	Peak	142	259
3	5470.00	58.68	68.20	-9.52	53.98	4.70	Peak	142	259
4	11000.00	43.11	54.00	-10.89	28.46	14.65	Average	100	40
5	11000.00	56.11	74.00	-17.89	41.46	14.65	Peak	100	40
6	16500.00	58.23	68.20	-9.97	41.89	16.34	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

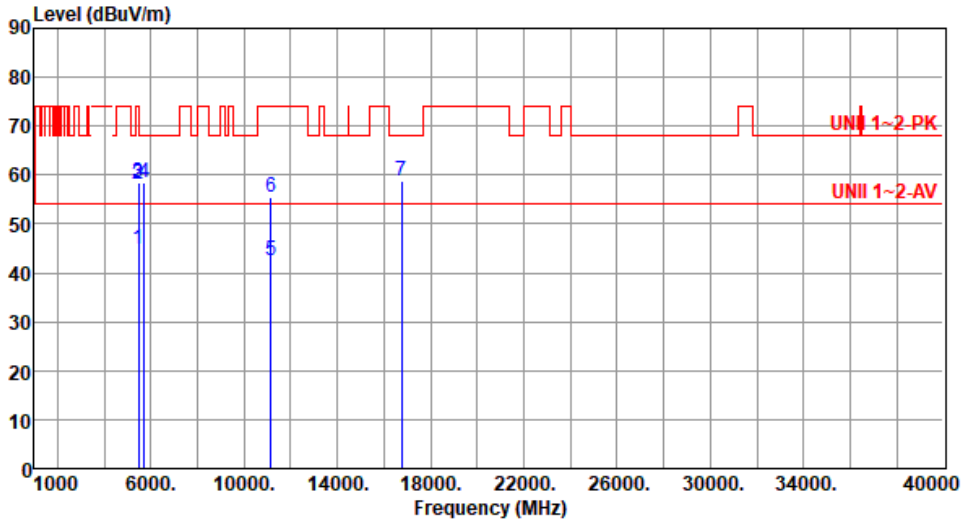
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5580
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.70	54.00	-9.30	40.03	4.67	Average	122	198
2	5460.00	58.13	74.00	-15.87	53.46	4.67	Peak	122	198
3	5470.00	58.36	68.20	-9.84	53.66	4.70	Peak	122	198
4	5725.00	58.46	68.20	-9.74	53.29	5.17	Peak	122	198
5	11160.00	42.39	54.00	-11.61	28.42	13.97	Average	100	80
6	11160.00	55.43	74.00	-18.57	41.46	13.97	Peak	100	80
7	16740.00	58.72	68.20	-9.48	41.55	17.17	Peak	100	100

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

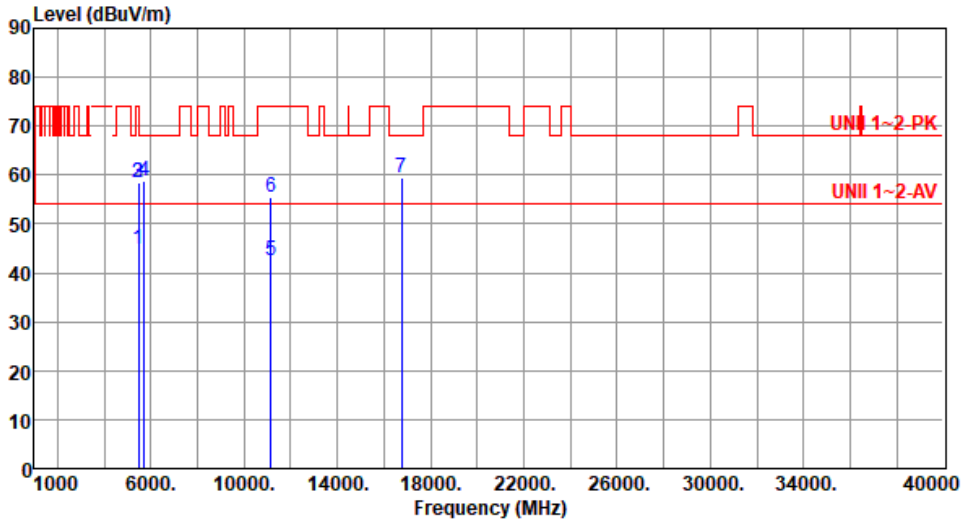
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5580
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.83	54.00	-9.17	40.16	4.67	Average	136	262
2	5460.00	58.33	74.00	-15.67	53.66	4.67	Peak	136	262
3	5470.00	58.58	68.20	-9.62	53.88	4.70	Peak	136	262
4	5725.00	58.63	68.20	-9.57	53.46	5.17	Peak	136	262
5	11160.00	42.52	54.00	-11.48	28.55	13.97	Average	100	90
6	11160.00	55.53	74.00	-18.47	41.56	13.97	Peak	100	90
7	16740.00	59.32	68.20	-8.88	42.15	17.17	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

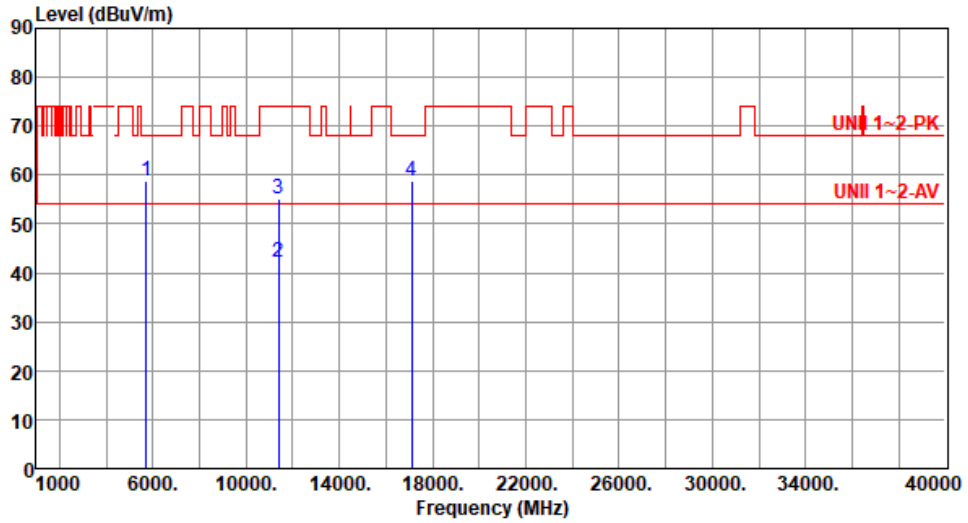
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5700
Polarization	Horizontal		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	58.82	68.20	-9.38	53.65	5.17	Peak	118	191
2	11400.00	42.30	54.00	-11.70	28.16	14.14	Average	100	60
3	11400.00	55.27	74.00	-18.73	41.13	14.14	Peak	100	60
4	17100.00	58.87	68.20	-9.33	41.45	17.42	Peak	100	90

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

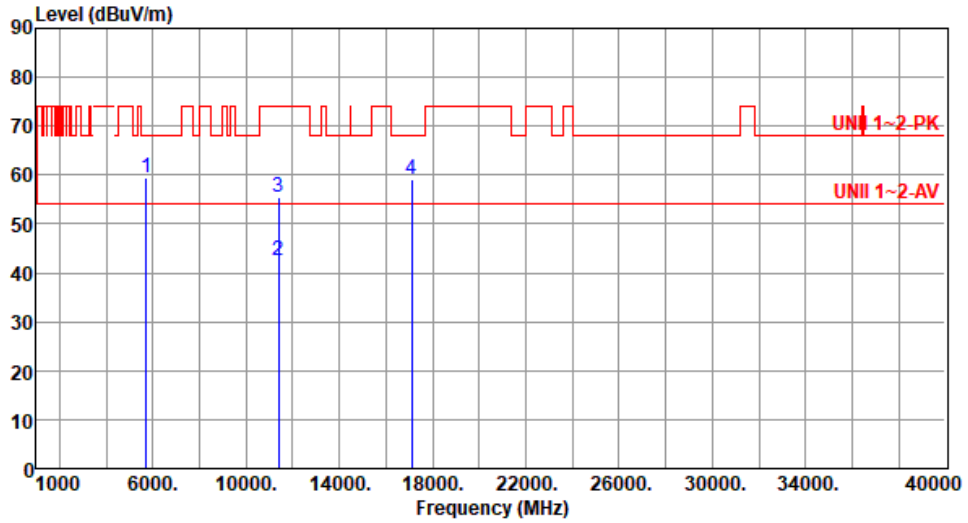
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	ax HE20	Test Freq. (MHz)	5700
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	59.32	68.20	-8.88	54.15	5.17	Peak	100	250
2	11400.00	42.44	54.00	-11.56	28.30	14.14	Average	100	30
3	11400.00	55.48	74.00	-18.52	41.34	14.14	Peak	100	30
4	17100.00	59.08	68.20	-9.12	41.66	17.42	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

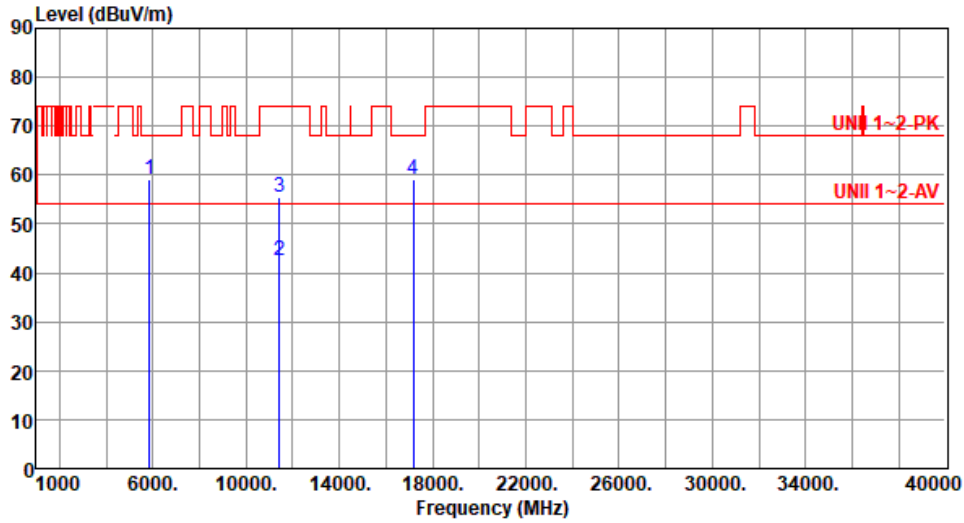
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5720
Polarization	Horizontal		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	59.11	68.20	-9.09	53.46	5.65	Peak	118	194
2	11440.00	42.48	54.00	-11.52	28.22	14.26	Average	100	30
3	11440.00	55.58	74.00	-18.42	41.32	14.26	Peak	100	30
4	17160.00	59.01	68.20	-9.19	41.59	17.42	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

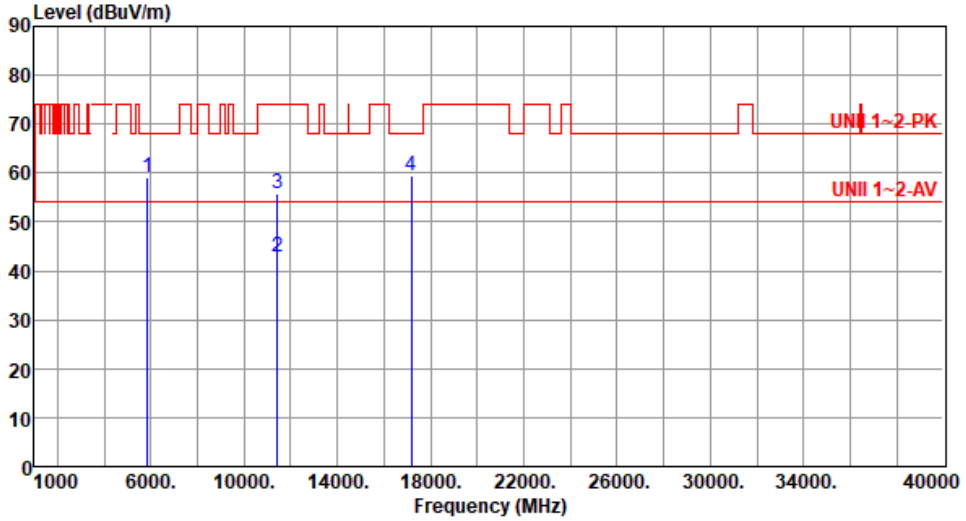
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Modulation	ax HE20	Test Freq. (MHz)	5720
Polarization	Vertical		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	59.24	68.20	-8.96	53.59	5.65	Peak	129	265
2	11440.00	42.69	54.00	-11.31	28.43	14.26	Average	100	90
3	11440.00	55.72	74.00	-18.28	41.46	14.26	Peak	100	90
4	17160.00	59.30	68.20	-8.90	41.88	17.42	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

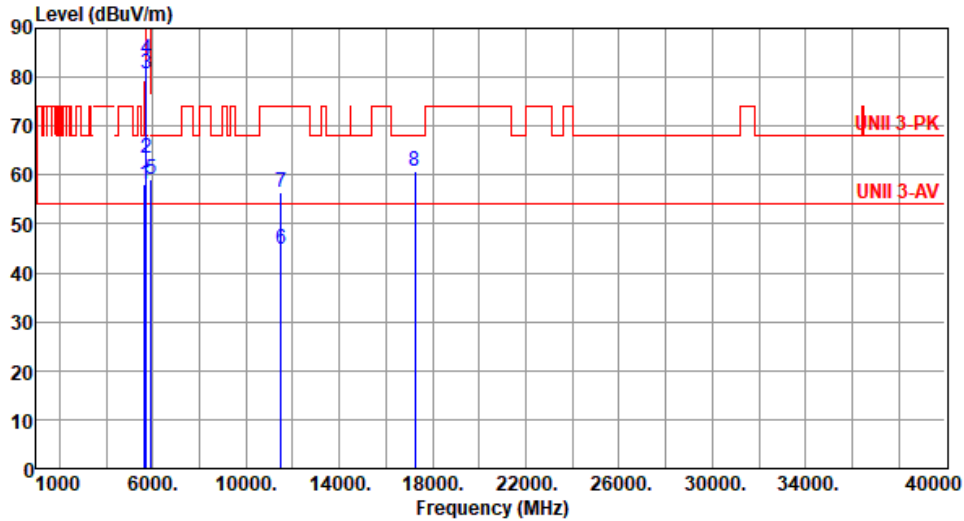
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5745
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.25	68.20	-9.95	53.44	4.81	Peak	123	195
2	5700.00	63.47	105.20	-41.73	58.45	5.02	Peak	123	195
3	5720.00	80.73	110.80	-30.07	75.59	5.14	Peak	123	195
4	5725.00	83.72	122.20	-38.48	78.55	5.17	Peak	123	195
5	5925.00	59.03	68.20	-9.17	53.42	5.61	Peak	123	195
6	11490.00	44.93	54.00	-9.07	30.54	14.39	Average	165	99
7	11490.00	56.51	74.00	-17.49	42.12	14.39	Peak	165	99
8	17235.00	60.91	68.20	-7.29	43.45	17.46	Peak	100	285

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

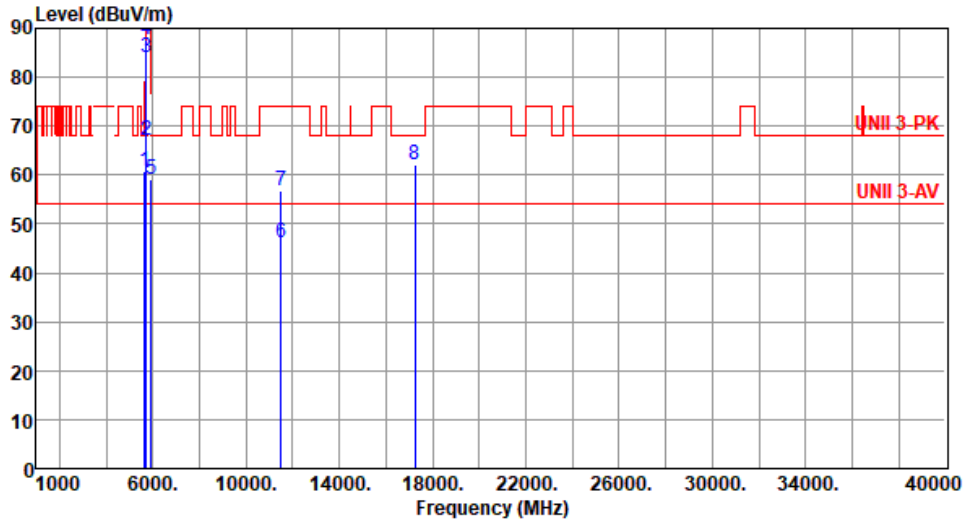
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5745
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	60.91	68.20	-7.29	56.10	4.81	Peak	108	253
2	5700.00	66.95	105.20	-38.25	61.93	5.02	Peak	108	253
3	5720.00	84.18	110.80	-26.62	79.04	5.14	Peak	108	253
4	5725.00	87.78	122.20	-34.42	82.61	5.17	Peak	108	253
5	5925.00	59.20	68.20	-9.00	53.59	5.61	Peak	108	253
6	11490.00	46.15	54.00	-7.85	31.76	14.39	Average	144	181
7	11490.00	56.95	74.00	-17.05	42.56	14.39	Peak	144	181
8	17235.00	62.11	68.20	-6.09	44.65	17.46	Peak	155	133

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

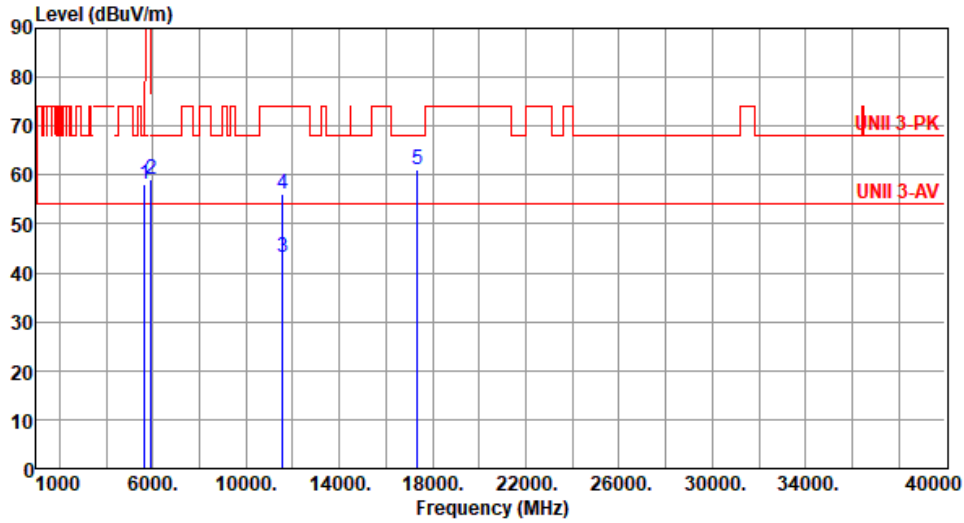
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5785
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.25	68.20	-9.95	53.44	4.81	Peak	120	194
2	5925.00	59.16	68.20	-9.04	53.55	5.61	Peak	120	194
3	11570.00	43.27	54.00	-10.73	29.02	14.25	Average	166	88
4	11570.00	56.22	74.00	-17.78	41.97	14.25	Peak	166	88
5	17355.00	61.14	68.20	-7.06	43.23	17.91	Peak	100	286

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

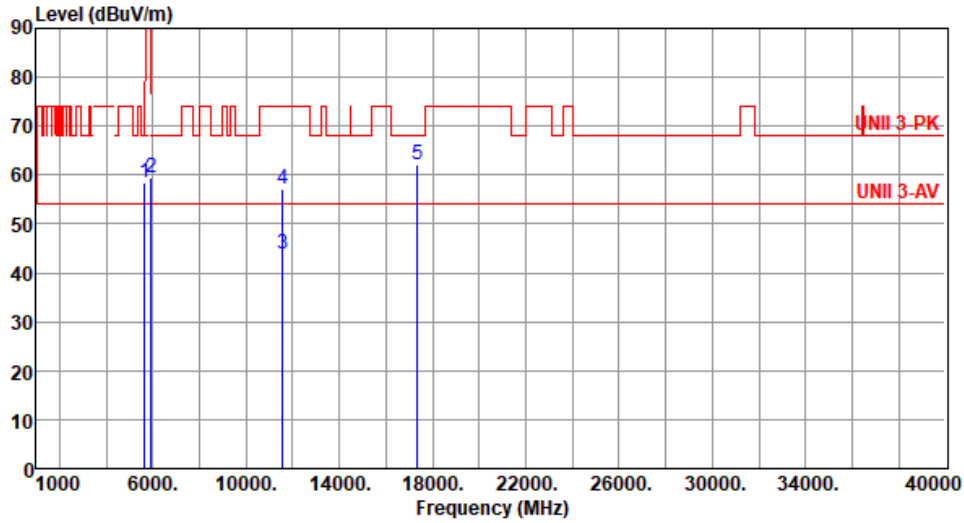
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5785
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.48	68.20	-9.72	53.67	4.81	Peak	109	255
2	5925.00	59.49	68.20	-8.71	53.88	5.61	Peak	109	255
3	11570.00	44.00	54.00	-10.00	29.75	14.25	Average	155	183
4	11570.00	57.14	74.00	-16.86	42.89	14.25	Peak	155	183
5	17355.00	62.07	68.20	-6.13	44.16	17.91	Peak	163	102

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

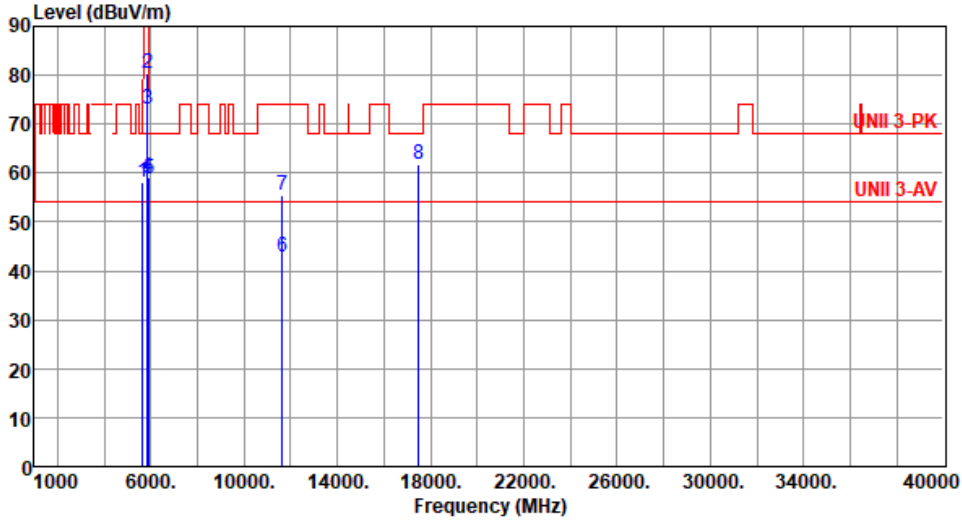
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5825
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.25	68.20	-9.95	53.44	4.81	Peak	123	197
2	5850.00	80.50	122.20	-41.70	74.85	5.65	Peak	123	197
3	5855.00	73.10	110.80	-37.70	67.45	5.65	Peak	123	197
4	5875.00	59.24	105.20	-45.96	53.58	5.66	Peak	123	197
5	5925.00	58.73	68.20	-9.47	53.12	5.61	Peak	123	197
6	11650.00	42.69	54.00	-11.31	28.79	13.90	Average	162	86
7	11650.00	55.46	74.00	-18.54	41.56	13.90	Peak	162	86
8	17475.00	61.70	68.20	-6.50	43.15	18.55	Peak	100	280

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

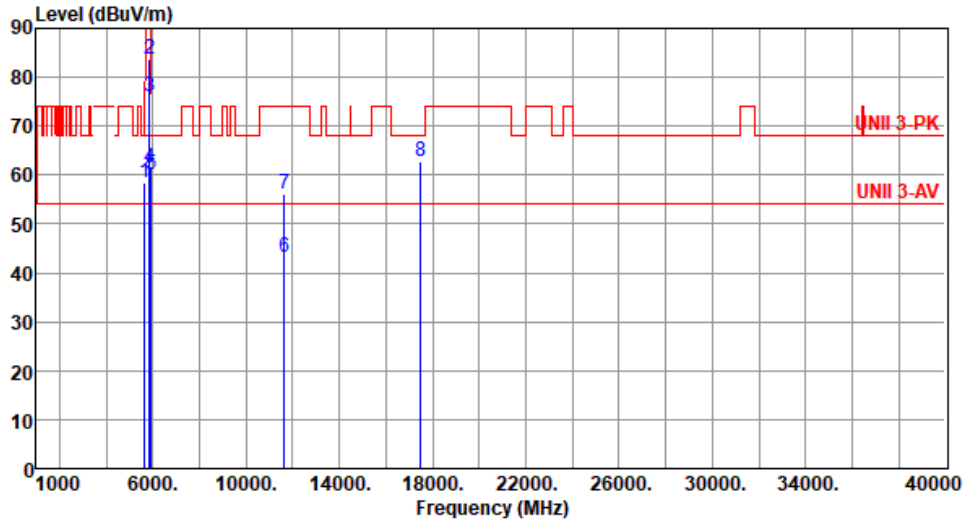
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE20	Test Freq. (MHz)	5825
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.47	68.20	-9.73	53.66	4.81	Peak	147	228
2	5850.00	83.69	122.20	-38.51	78.04	5.65	Peak	147	228
3	5855.00	75.93	110.80	-34.87	70.28	5.65	Peak	147	228
4	5875.00	61.30	105.20	-43.90	55.64	5.66	Peak	147	228
5	5925.00	60.17	68.20	-8.03	54.56	5.61	Peak	147	228
6	11650.00	43.28	54.00	-10.72	29.38	13.90	Average	145	186
7	11650.00	56.25	74.00	-17.75	42.35	13.90	Peak	145	186
8	17475.00	62.65	68.20	-5.55	44.10	18.55	Peak	159	105

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Emission Above 1GHz for ax HE40

Modulation	ax HE40	Test Freq. (MHz)	5190						
Polarization	Horizontal								
Test By :Roger Lu      Temperature(°C):24      Humidity(%):65									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.31	54.00	-7.69	41.30	5.01	Average	330	328
2	5150.00	60.31	74.00	-13.69	55.30	5.01	Peak	330	328
3	10380.00	55.38	68.20	-12.82	41.11	14.27	Peak	100	40
4	15570.00	42.36	54.00	-11.64	28.88	13.48	Average	100	70
5	15570.00	55.05	74.00	-18.95	41.57	13.48	Peak	100	70

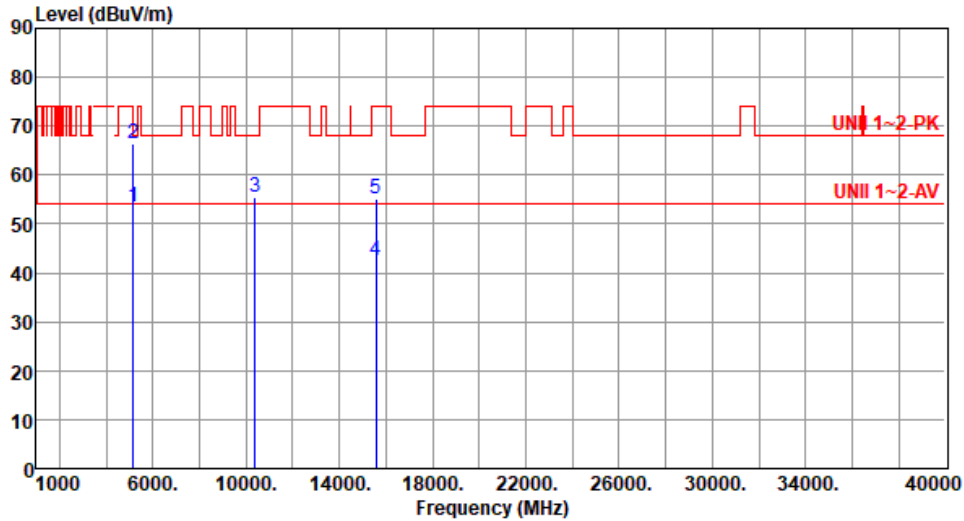
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Modulation	ax HE40	Test Freq. (MHz)	5190
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	53.58	54.00	-0.42	48.57	5.01	Average	100	165
2	5150.00	66.47	74.00	-7.53	61.46	5.01	Peak	100	165
3	10380.00	55.56	68.20	-12.64	41.29	14.27	Peak	100	30
4	15570.00	42.51	54.00	-11.49	29.03	13.48	Average	100	60
5	15570.00	55.28	74.00	-18.72	41.80	13.48	Peak	100	60

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

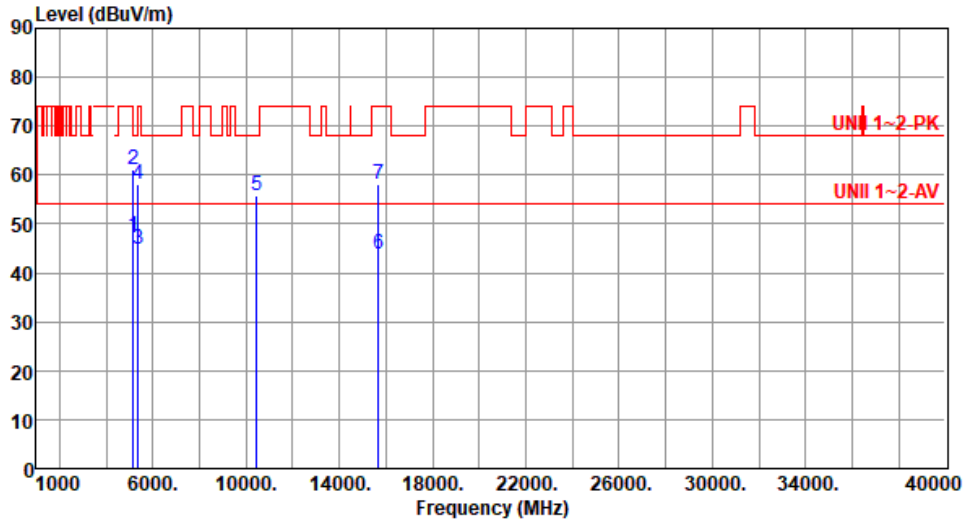
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	ax HE40	Test Freq. (MHz)	5230
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	47.35	54.00	-6.65	42.34	5.01	Average	333	335
2	5150.00	61.20	74.00	-12.80	56.19	5.01	Peak	333	335
3	5350.00	44.68	54.00	-9.32	40.26	4.42	Average	333	335
4	5350.00	58.08	74.00	-15.92	53.66	4.42	Peak	333	335
5	10460.00	55.68	74.00	-18.32	41.25	14.43	Peak	100	20
6	15690.00	43.96	54.00	-10.04	30.56	13.40	Average	315	42
7	15690.00	57.99	74.00	-16.01	44.59	13.40	Peak	315	42

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

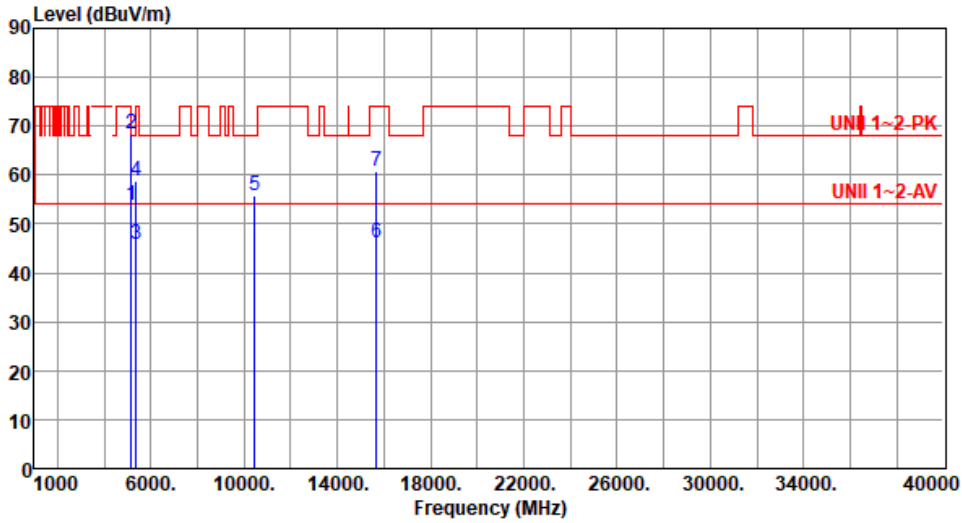
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	5230
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	53.77	54.00	-0.23	48.76	5.01	Average	101	163
2	5150.00	68.28	74.00	-5.72	63.27	5.01	Peak	101	163
3	5350.00	45.69	54.00	-8.31	41.27	4.42	Average	101	163
4	5350.00	58.68	74.00	-15.32	54.26	4.42	Peak	101	163
5	10460.00	55.85	68.20	-12.35	41.42	14.43	Peak	100	70
6	15690.00	46.28	54.00	-7.72	32.88	13.40	Average	333	216
7	15690.00	60.84	74.00	-13.16	47.44	13.40	Peak	333	216

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

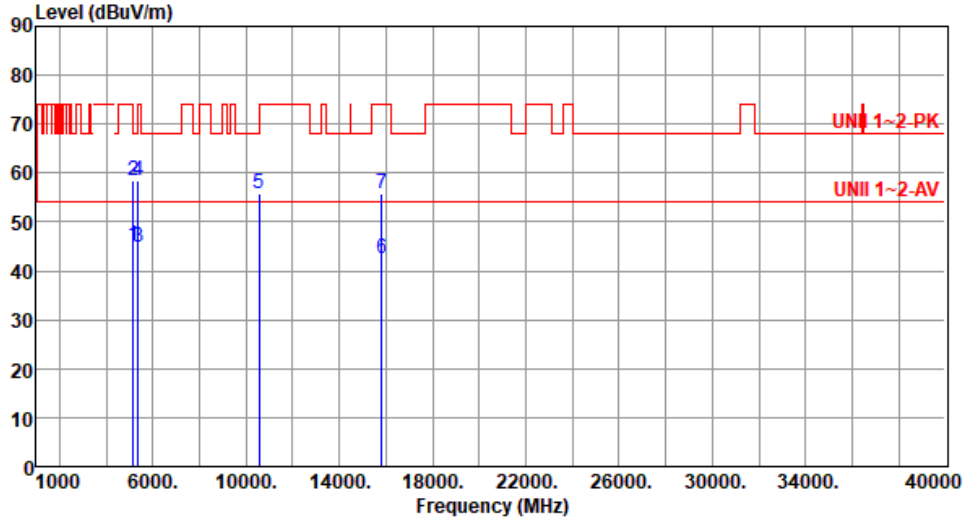
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	5270
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.07	54.00	-8.93	40.06	5.01	Average	330	336
2	5150.00	58.58	74.00	-15.42	53.57	5.01	Peak	330	336
3	5350.00	44.70	54.00	-9.30	40.28	4.42	Average	330	336
4	5350.00	58.54	74.00	-15.46	54.12	4.42	Peak	330	336
5	10540.00	55.86	68.20	-12.34	41.42	14.44	Peak	100	40
6	15810.00	42.65	54.00	-11.35	29.15	13.50	Average	100	20
7	15810.00	55.69	74.00	-18.31	42.19	13.50	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

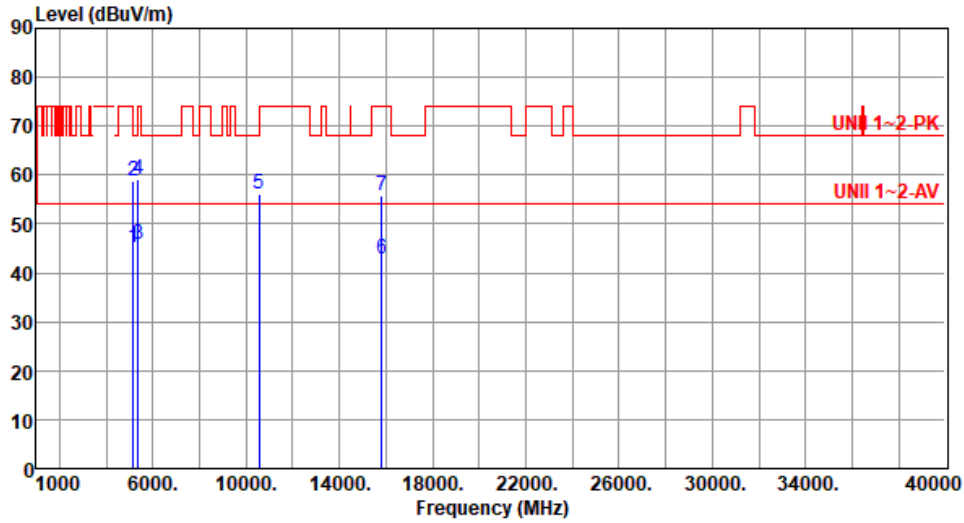
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	5270
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.17	54.00	-8.83	40.16	5.01	Average	236	200
2	5150.00	58.81	74.00	-15.19	53.80	5.01	Peak	236	200
3	5350.00	45.67	54.00	-8.33	41.25	4.42	Average	236	200
4	5350.00	58.98	74.00	-15.02	54.56	4.42	Peak	236	200
5	10540.00	56.02	68.20	-12.18	41.58	14.44	Peak	100	60
6	15810.00	42.75	54.00	-11.25	29.25	13.50	Average	100	30
7	15810.00	55.83	74.00	-18.17	42.33	13.50	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

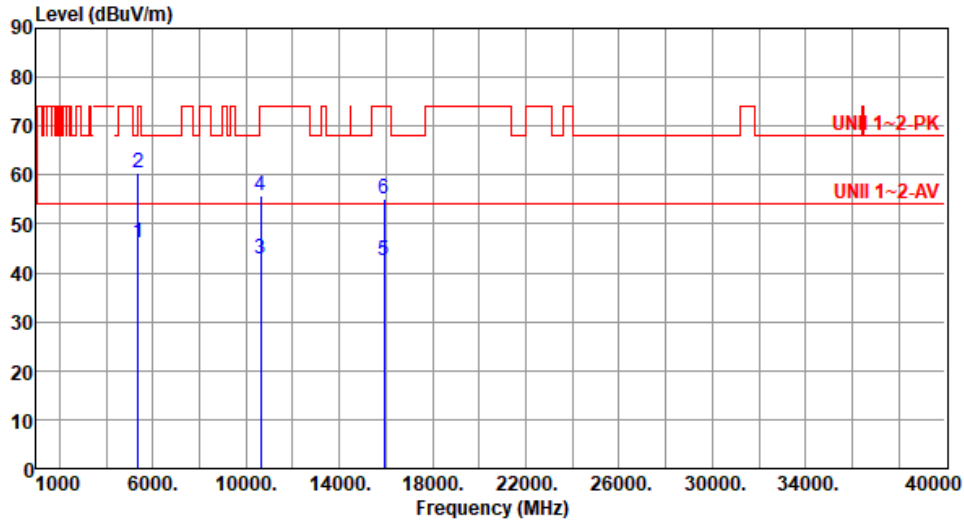
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	5310
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	46.10	54.00	-7.90	41.68	4.42	Average	336	331
2	5350.00	60.57	74.00	-13.43	56.15	4.42	Peak	336	331
3	10620.00	42.78	54.00	-11.22	28.42	14.36	Average	100	30
4	10620.00	55.78	74.00	-18.22	41.42	14.36	Peak	100	30
5	15930.00	42.46	54.00	-11.54	28.83	13.63	Average	100	70
6	15930.00	55.29	74.00	-18.71	41.66	13.63	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

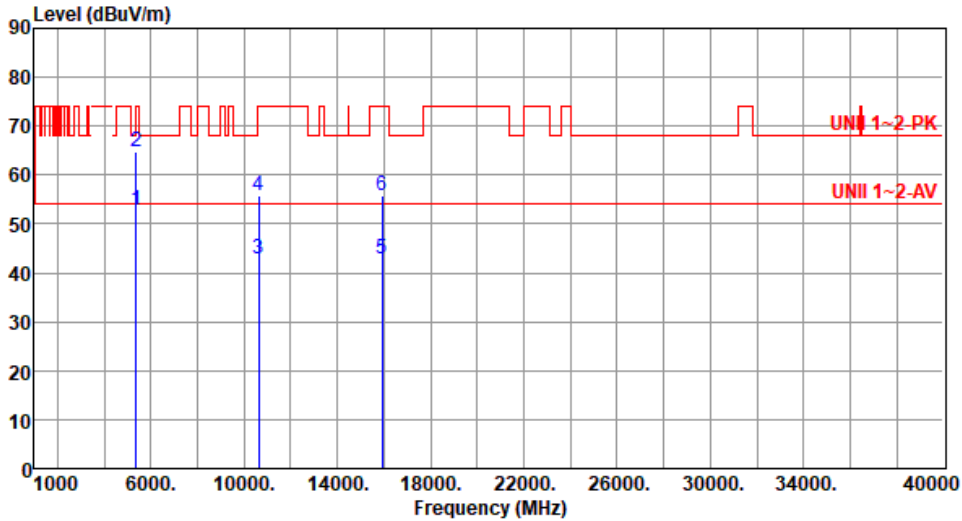
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	5310
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5350.00	52.96	54.00	-1.04	48.54	4.42	Average	233	214
2	5350.00	64.88	74.00	-9.12	60.46	4.42	Peak	233	214
3	10620.00	42.92	54.00	-11.08	28.56	14.36	Average	100	50
4	10620.00	55.94	74.00	-18.06	41.58	14.36	Peak	100	50
5	15930.00	42.68	54.00	-11.32	29.05	13.63	Average	100	40
6	15930.00	55.73	74.00	-18.27	42.10	13.63	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

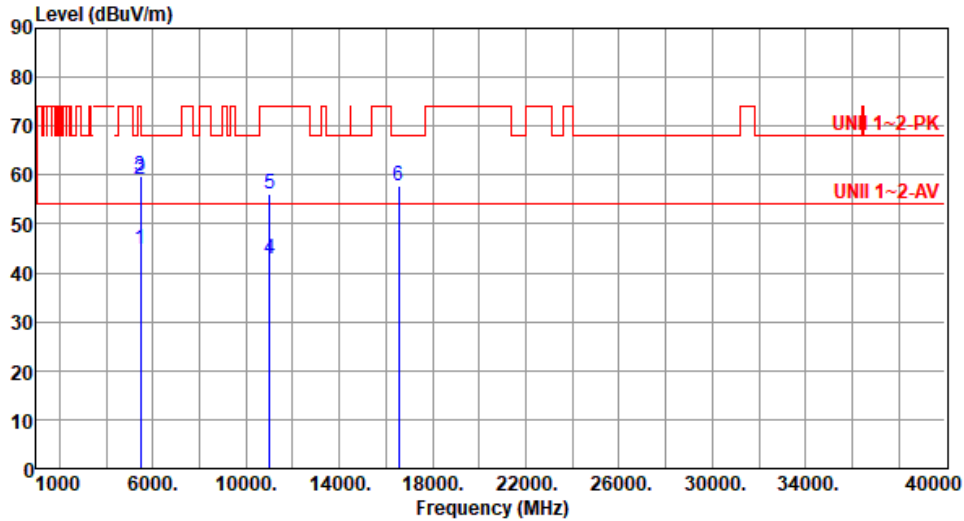
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	5510
Polarization	Horizontal		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.79	54.00	-9.21	40.12	4.67	Average	124	194
2	5460.00	58.95	74.00	-15.05	54.28	4.67	Peak	124	194
3	5470.00	59.81	68.20	-8.39	55.11	4.70	Peak	124	194
4	11020.00	42.98	54.00	-11.02	28.42	14.56	Average	100	30
5	11020.00	56.02	74.00	-17.98	41.46	14.56	Peak	100	30
6	16530.00	57.79	68.20	-10.41	41.55	16.24	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

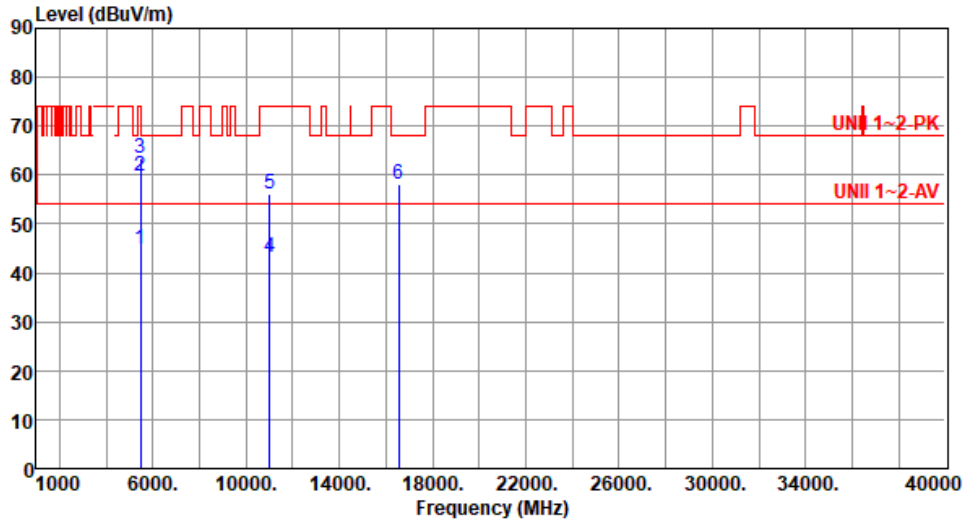
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Modulation	ax HE40	Test Freq. (MHz)	5510
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.96	54.00	-9.04	40.29	4.67	Average	110	227
2	5460.00	59.80	74.00	-14.20	55.13	4.67	Peak	110	227
3	5470.00	63.37	68.20	-4.83	58.67	4.70	Peak	110	227
4	11020.00	43.12	54.00	-10.88	28.56	14.56	Average	100	40
5	11020.00	56.24	74.00	-17.76	41.68	14.56	Peak	100	40
6	16530.00	58.11	68.20	-10.09	41.87	16.24	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

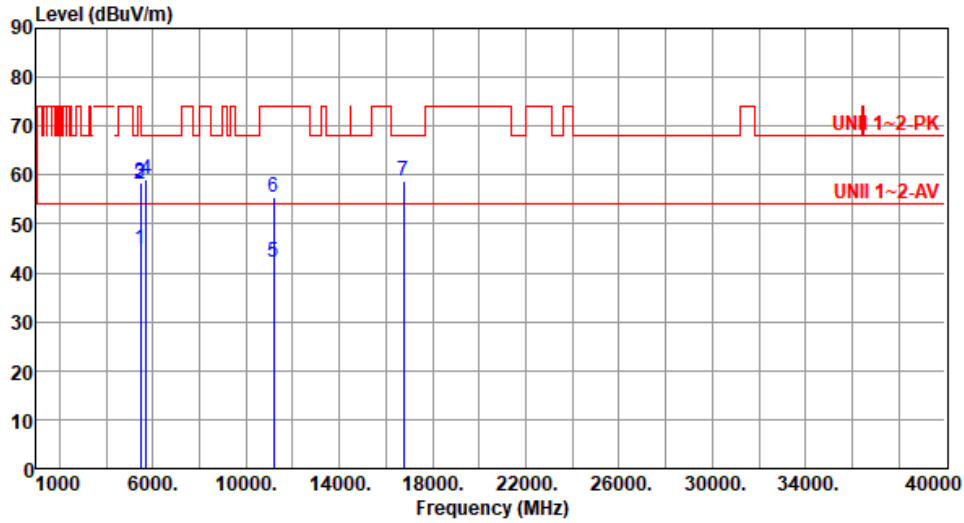
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	5590
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.90	54.00	-9.10	40.23	4.67	Average	126	193
2	5460.00	58.24	74.00	-15.76	53.57	4.67	Peak	126	193
3	5470.00	58.48	68.20	-9.72	53.78	4.70	Peak	126	193
4	5725.00	59.08	68.20	-9.12	53.91	5.17	Peak	126	193
5	11180.00	42.33	54.00	-11.67	28.45	13.88	Average	100	40
6	11180.00	55.55	74.00	-18.45	41.67	13.88	Peak	100	40
7	16770.00	58.90	68.20	-9.30	41.55	17.35	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

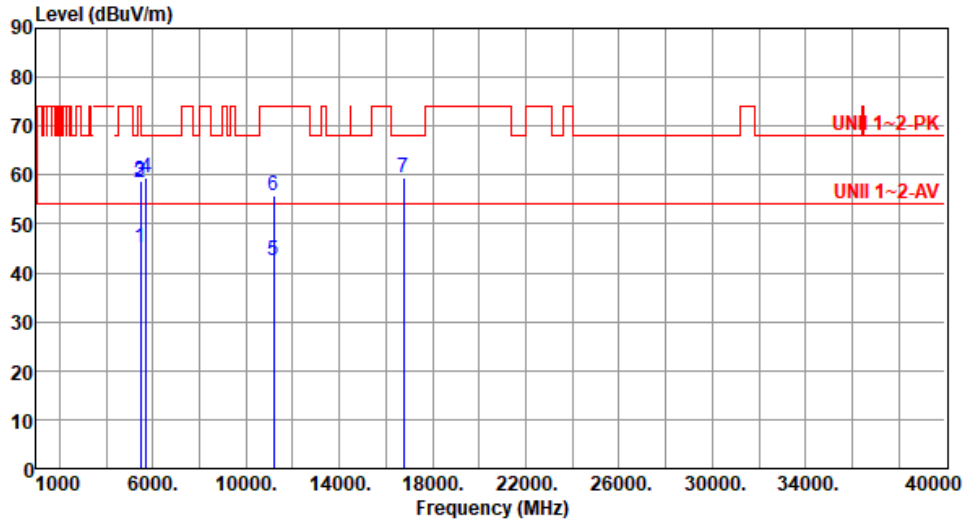
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	5590
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.13	54.00	-8.87	40.46	4.67	Average	105	261
2	5460.00	58.57	74.00	-15.43	53.90	4.67	Peak	105	261
3	5470.00	58.73	68.20	-9.47	54.03	4.70	Peak	105	261
4	5725.00	59.39	68.20	-8.81	54.22	5.17	Peak	105	261
5	11180.00	42.55	54.00	-11.45	28.67	13.88	Average	100	60
6	11180.00	55.74	74.00	-18.26	41.86	13.88	Peak	100	60
7	16770.00	59.32	68.20	-8.88	41.97	17.35	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

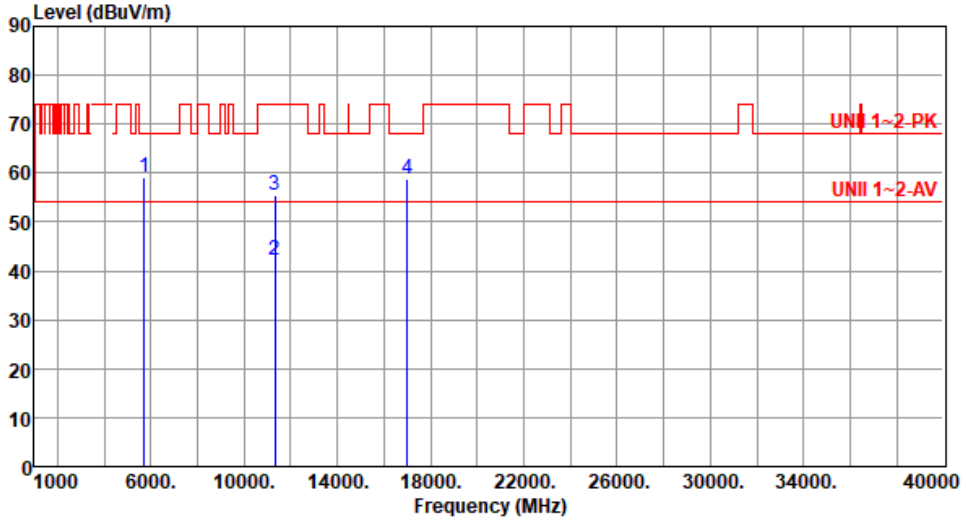
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	5670
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	59.15	68.20	-9.05	53.98	5.17	Peak	122	194
2	11340.00	42.30	54.00	-11.70	28.32	13.98	Average	100	80
3	11340.00	55.41	74.00	-18.59	41.43	13.98	Peak	100	80
4	17010.00	58.83	68.20	-9.37	41.58	17.25	Peak	100	40

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

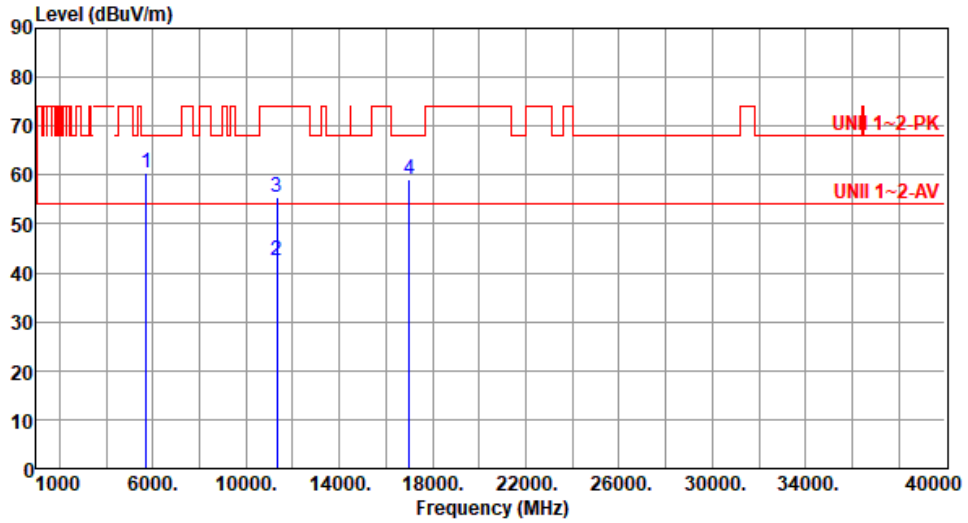
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	ax HE40	Test Freq. (MHz)	5670
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5725.00	60.43	68.20	-7.77	55.26	5.17	Peak	104	256
2	11340.00	42.42	54.00	-11.58	28.44	13.98	Average	100	30
3	11340.00	55.57	74.00	-18.43	41.59	13.98	Peak	100	30
4	17010.00	58.99	68.20	-9.21	41.74	17.25	Peak	100	50

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

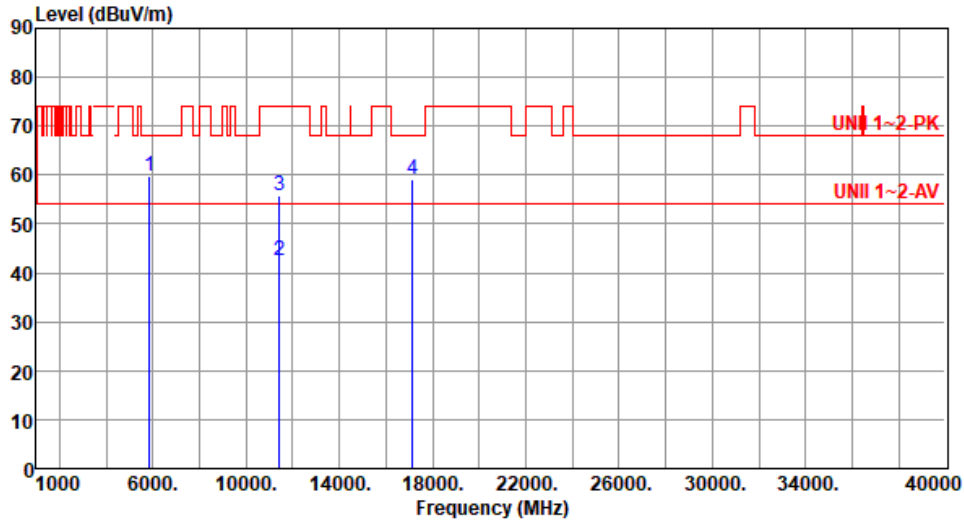
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



<b>Modulation</b>	ax HE40	<b>Test Freq. (MHz)</b>	5710
<b>Polarization</b>	Horizontal		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	59.67	68.20	-8.53	54.02	5.65	Peak	120	192
2	11420.00	42.52	54.00	-11.48	28.32	14.20	Average	100	60
3	11420.00	55.65	74.00	-18.35	41.45	14.20	Peak	100	60
4	17130.00	59.07	68.20	-9.13	41.64	17.43	Peak	100	55

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

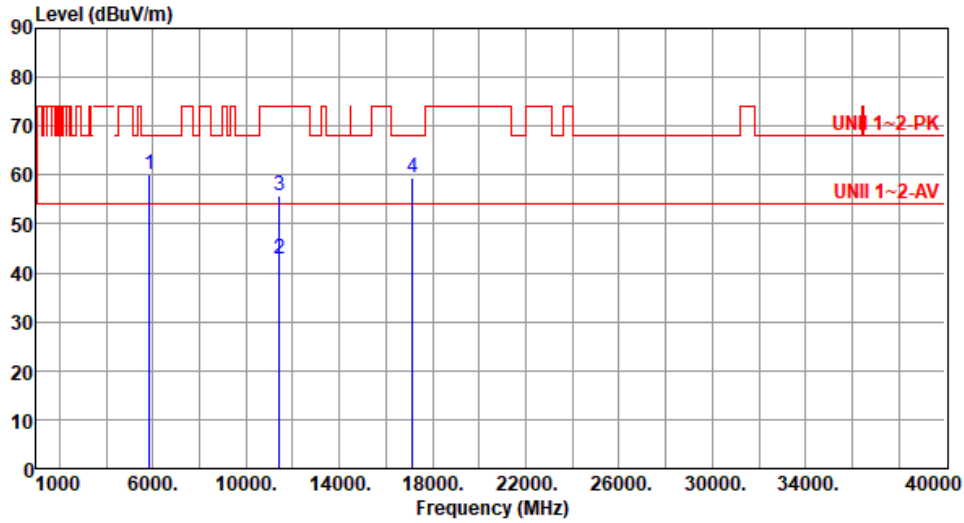
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	ax HE40	Test Freq. (MHz)	5710
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5850.00	60.04	68.20	-8.16	54.39	5.65	Peak	106	258
2	11420.00	42.69	54.00	-11.31	28.49	14.20	Average	100	30
3	11420.00	55.84	74.00	-18.16	41.64	14.20	Peak	100	30
4	17130.00	59.38	68.20	-8.82	41.95	17.43	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

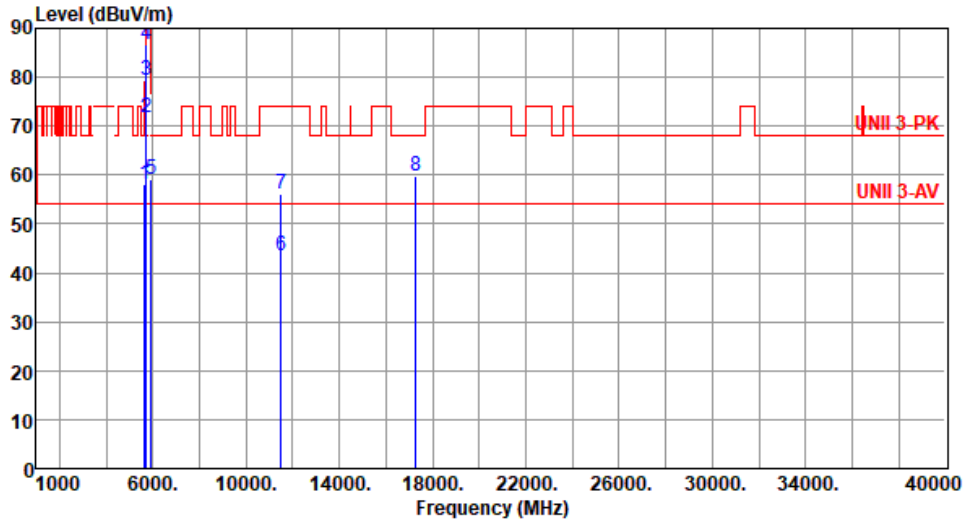
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



<b>Modulation</b>	ax HE40	<b>Test Freq. (MHz)</b>	5755
<b>Polarization</b>	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.26	68.20	-9.94	53.45	4.81	Peak	125	194
2	5700.00	71.60	105.20	-33.60	66.58	5.02	Peak	125	194
3	5720.00	79.43	110.80	-31.37	74.29	5.14	Peak	125	194
4	5725.00	86.63	122.20	-35.57	81.46	5.17	Peak	125	194
5	5925.00	59.03	68.20	-9.17	53.42	5.61	Peak	125	194
6	11510.00	43.65	54.00	-10.35	29.25	14.40	Average	100	30
7	11510.00	56.04	74.00	-17.96	41.64	14.40	Peak	100	30
8	17265.00	59.81	68.20	-8.39	42.31	17.50	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

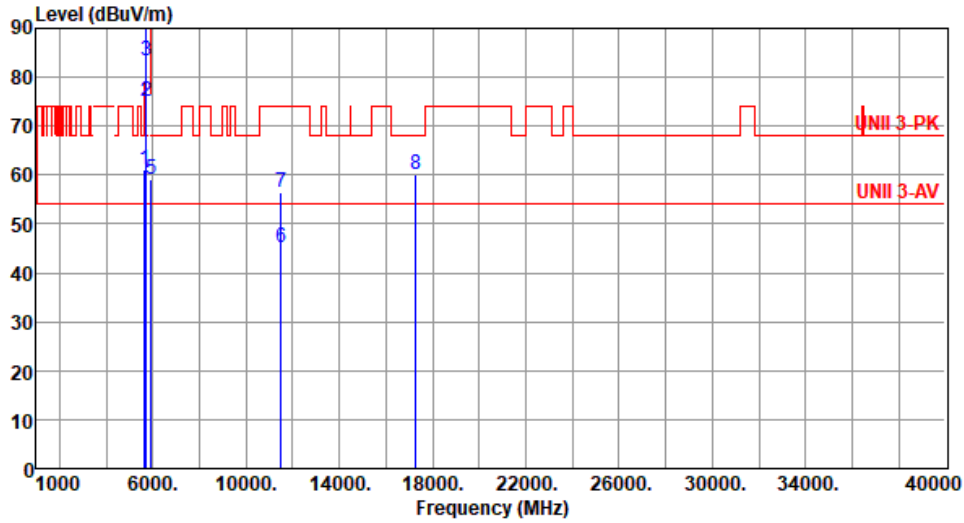
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Modulation	ax HE40	Test Freq. (MHz)	5755
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	61.25	68.20	-6.95	56.44	4.81	Peak	121	262
2	5700.00	74.95	105.20	-30.25	69.93	5.02	Peak	121	262
3	5720.00	83.25	110.80	-27.55	78.11	5.14	Peak	121	262
4	5725.00	90.38	122.20	-31.82	85.21	5.17	Peak	121	262
5	5925.00	59.15	68.20	-9.05	53.54	5.61	Peak	121	262
6	11510.00	45.08	54.00	-8.92	30.68	14.40	Average	142	189
7	11510.00	56.55	74.00	-17.45	42.15	14.40	Peak	142	189
8	17265.00	59.98	68.20	-8.22	42.48	17.50	Peak	151	136

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

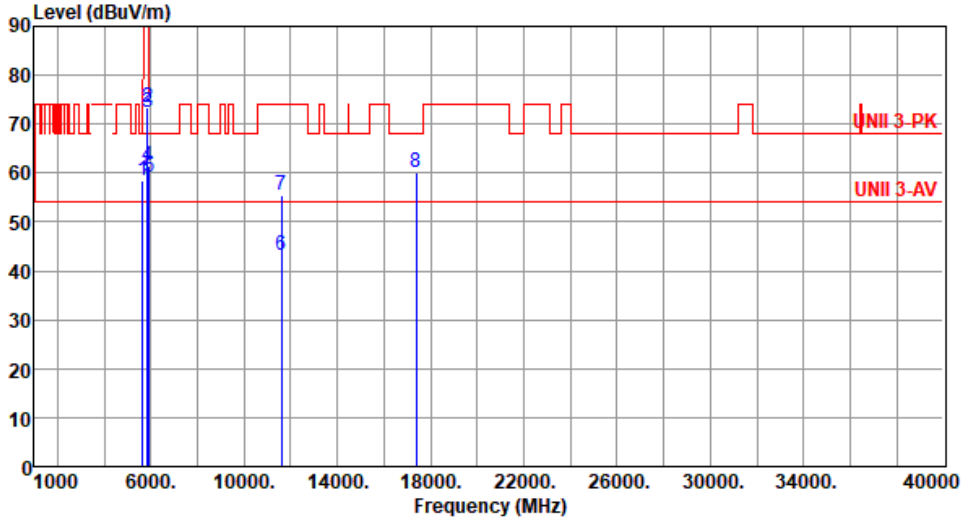
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	ax HE40	Test Freq. (MHz)	5795
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.46	68.20	-9.74	53.65	4.81	Peak	125	198
2	5850.00	73.24	122.20	-48.96	67.59	5.65	Peak	125	198
3	5855.00	72.24	110.80	-38.56	66.59	5.65	Peak	125	198
4	5875.00	61.60	105.20	-43.60	55.94	5.66	Peak	125	198
5	5925.00	59.17	68.20	-9.03	53.56	5.61	Peak	125	198
6	11590.00	43.18	54.00	-10.82	28.99	14.19	Average	100	30
7	11590.00	55.53	74.00	-18.47	41.34	14.19	Peak	100	30
8	17385.00	60.16	68.20	-8.04	42.03	18.13	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

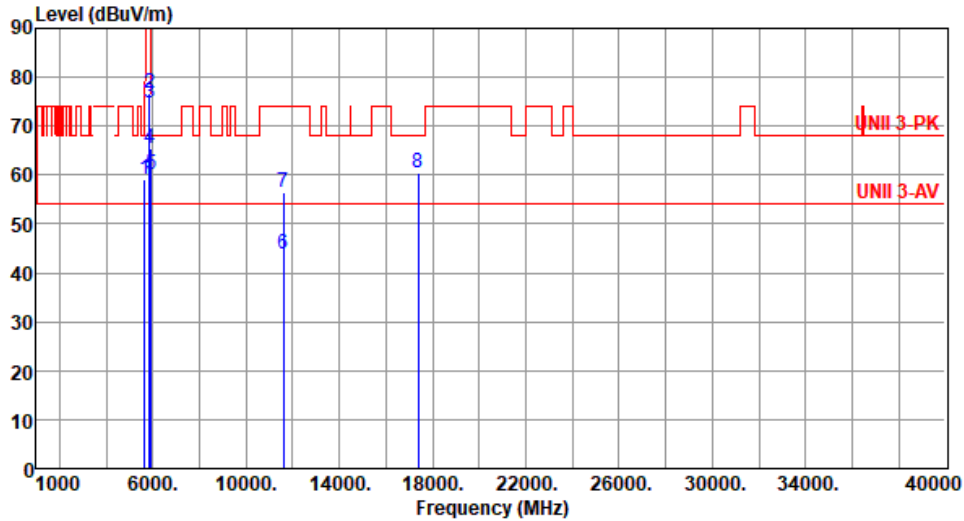
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE40	Test Freq. (MHz)	5795
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	58.95	68.20	-9.25	54.14	4.81	Peak	111	260
2	5850.00	76.59	122.20	-45.61	70.94	5.65	Peak	111	260
3	5855.00	74.76	110.80	-36.04	69.11	5.65	Peak	111	260
4	5875.00	65.51	105.20	-39.69	59.85	5.66	Peak	111	260
5	5925.00	60.10	68.20	-8.10	54.49	5.61	Peak	111	260
6	11590.00	43.68	54.00	-10.32	29.49	14.19	Average	149	182
7	11590.00	56.39	74.00	-17.61	42.20	14.19	Peak	149	182
8	17385.00	60.35	68.20	-7.85	42.22	18.13	Peak	162	109

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

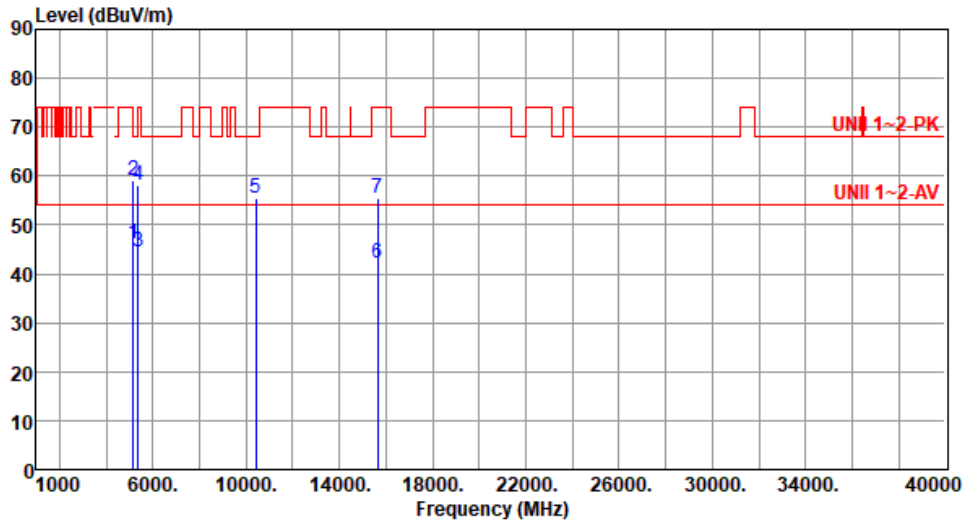
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Emission Above 1GHz for ax HE80

Modulation	ax HE80	Test Freq. (MHz)	5210
Polarization	Horizontal		

Test By :Roger Lu      Temperature(°C):24      Humidity(%):65



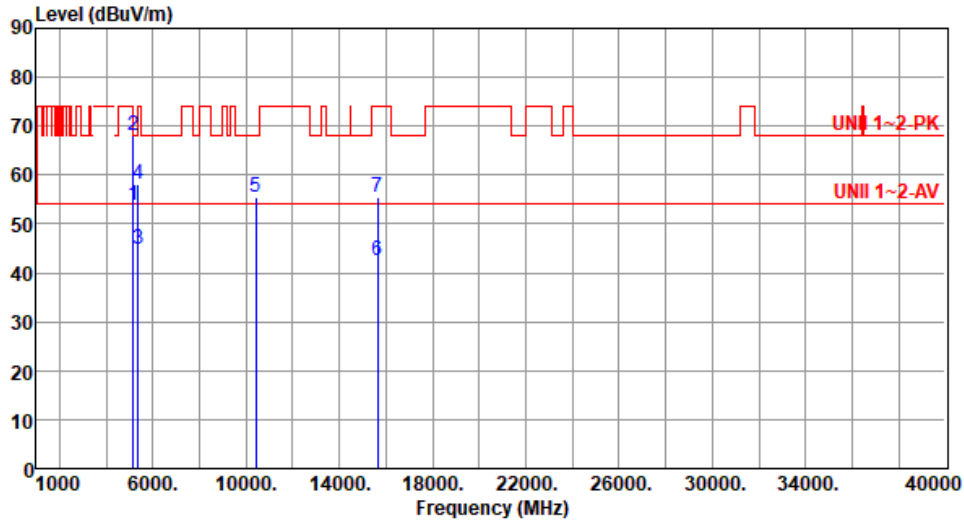
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	46.18	54.00	-7.82	41.17	5.01	Average	339	332
2	5150.00	59.14	74.00	-14.86	54.13	5.01	Peak	339	332
3	5350.00	44.67	54.00	-9.33	40.25	4.42	Average	339	332
4	5350.00	58.17	74.00	-15.83	53.75	4.42	Peak	339	332
5	10420.00	55.54	68.20	-12.66	41.18	14.36	Peak	100	30
6	15630.00	42.23	54.00	-11.77	28.88	13.35	Average	100	20
7	15630.00	55.48	74.00	-18.52	42.13	13.35	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE80	Test Freq. (MHz)	5210
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	53.84	54.00	-0.16	48.83	5.01	Average	100	164
2	5150.00	68.21	74.00	-5.79	63.20	5.01	Peak	100	164
3	5350.00	44.84	54.00	-9.16	40.42	4.42	Average	100	164
4	5350.00	58.21	74.00	-15.79	53.79	4.42	Peak	100	164
5	10420.00	55.61	68.20	-12.59	41.25	14.36	Peak	100	60
6	15630.00	42.37	54.00	-11.63	29.02	13.35	Average	100	40
7	15630.00	55.54	74.00	-18.46	42.19	13.35	Peak	100	40

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

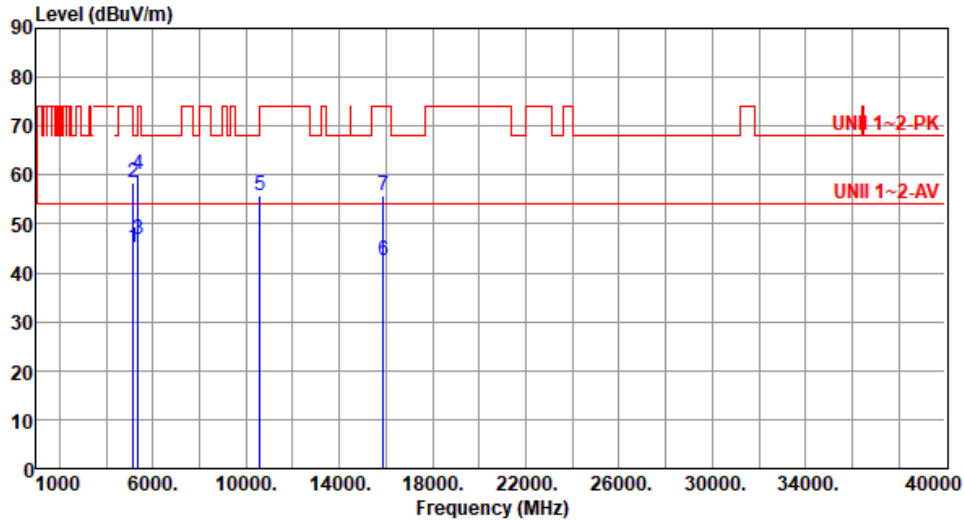
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).



Modulation	ax HE80	Test Freq. (MHz)	5290
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.27	54.00	-8.73	40.26	5.01	Average	333	336
2	5150.00	58.47	74.00	-15.53	53.46	5.01	Peak	333	336
3	5350.00	46.98	54.00	-7.02	42.56	4.42	Average	333	336
4	5350.00	60.01	74.00	-13.99	55.59	4.42	Peak	333	336
5	10580.00	55.84	68.20	-12.36	41.46	14.38	Peak	100	30
6	15870.00	42.58	54.00	-11.42	29.03	13.55	Average	100	40
7	15870.00	55.89	74.00	-18.11	42.34	13.55	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

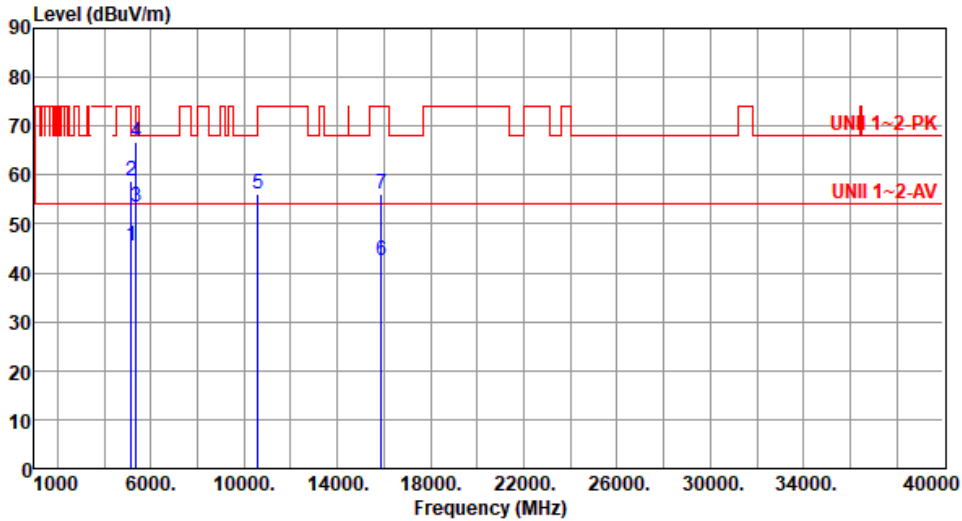
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE80	Test Freq. (MHz)	5290
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5150.00	45.61	54.00	-8.39	40.60	5.01	Average	236	187
2	5150.00	58.91	74.00	-15.09	53.90	5.01	Peak	236	187
3	5350.00	53.63	54.00	-0.37	49.21	4.42	Average	236	187
4	5350.00	66.67	74.00	-7.33	62.25	4.42	Peak	236	187
5	10580.00	56.16	68.20	-12.04	41.78	14.38	Peak	100	50
6	15870.00	42.67	54.00	-11.33	29.12	13.55	Average	100	60
7	15870.00	56.11	74.00	-17.89	42.56	13.55	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

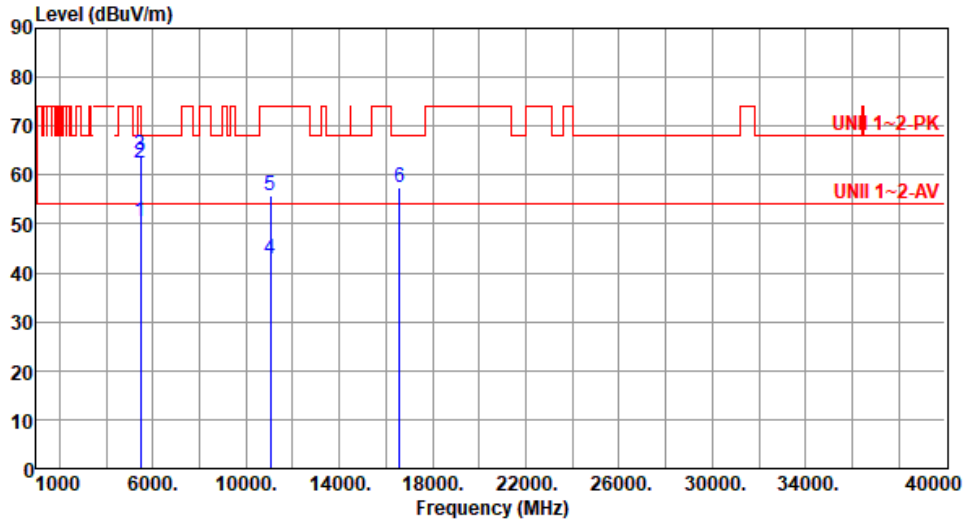
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE80	Test Freq. (MHz)	5530
Polarization	Horizontal		

Test By :Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	50.54	54.00	-3.46	45.87	4.67	Average	132	194
2	5460.00	62.54	74.00	-11.46	57.87	4.67	Peak	132	194
3	5470.00	64.18	68.20	-4.02	59.48	4.70	Peak	132	194
4	11060.00	42.71	54.00	-11.29	28.32	14.39	Average	100	20
5	11060.00	55.71	74.00	-18.29	41.32	14.39	Peak	100	20
6	16590.00	57.36	68.20	-10.84	41.32	16.04	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

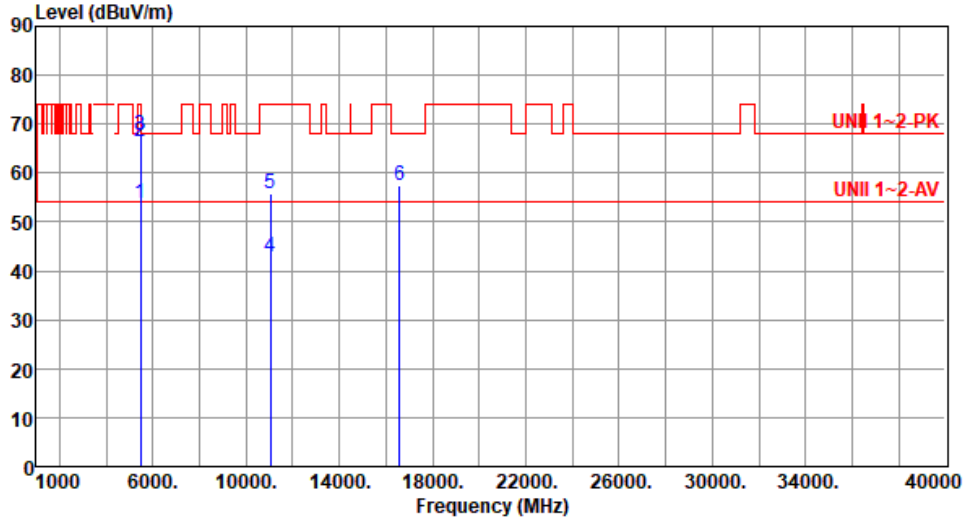
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).





Modulation	ax HE80	Test Freq. (MHz)	5530
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	53.80	54.00	-0.20	49.13	4.67	Average	110	310
2	5460.00	66.42	74.00	-7.58	61.75	4.67	Peak	110	310
3	5470.00	67.76	68.20	-0.44	63.06	4.70	Peak	110	228
4	11060.00	42.85	54.00	-11.15	28.46	14.39	Average	100	60
5	11060.00	55.85	74.00	-18.15	41.46	14.39	Peak	100	60
6	16590.00	57.49	68.20	-10.71	41.45	16.04	Peak	100	70

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

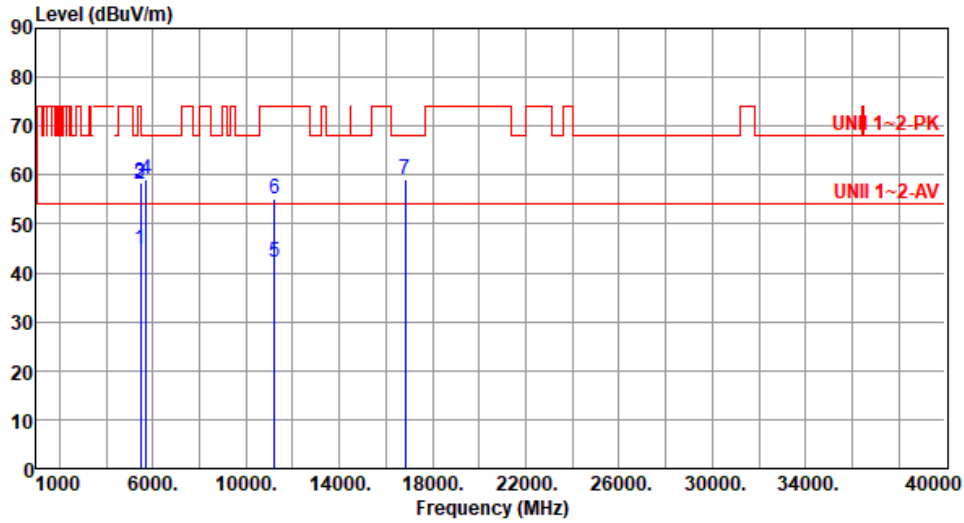
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



<b>Modulation</b>	ax HE80	<b>Test Freq. (MHz)</b>	5610
<b>Polarization</b>	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.83	54.00	-9.17	40.16	4.67	Average	128	194
2	5460.00	58.13	74.00	-15.87	53.46	4.67	Peak	128	194
3	5470.00	58.49	68.20	-9.71	53.79	4.70	Peak	128	194
4	5725.00	59.15	68.20	-9.05	53.98	5.17	Peak	128	194
5	11220.00	42.24	54.00	-11.76	28.42	13.82	Average	100	50
6	11220.00	55.29	74.00	-18.71	41.47	13.82	Peak	100	50
7	16830.00	59.02	68.20	-9.18	41.56	17.46	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

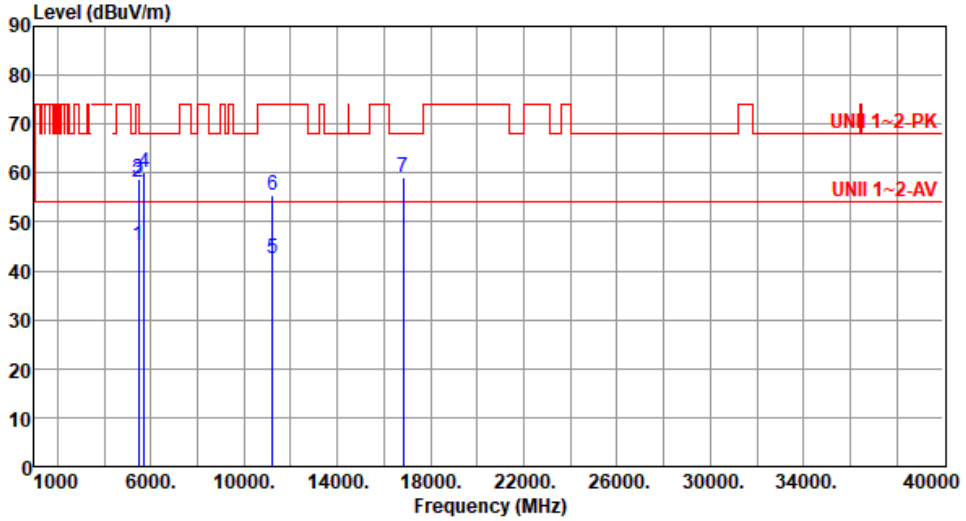
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE80	Test Freq. (MHz)	5610
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	45.13	54.00	-8.87	40.46	4.67	Average	138	260
2	5460.00	58.27	74.00	-15.73	53.60	4.67	Peak	138	260
3	5470.00	58.75	68.20	-9.45	54.05	4.70	Peak	138	260
4	5725.00	60.22	68.20	-7.98	55.05	5.17	Peak	138	260
5	11220.00	42.37	54.00	-11.63	28.55	13.82	Average	100	80
6	11220.00	55.49	74.00	-18.51	41.67	13.82	Peak	100	80
7	16830.00	59.25	68.20	-8.95	41.79	17.46	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

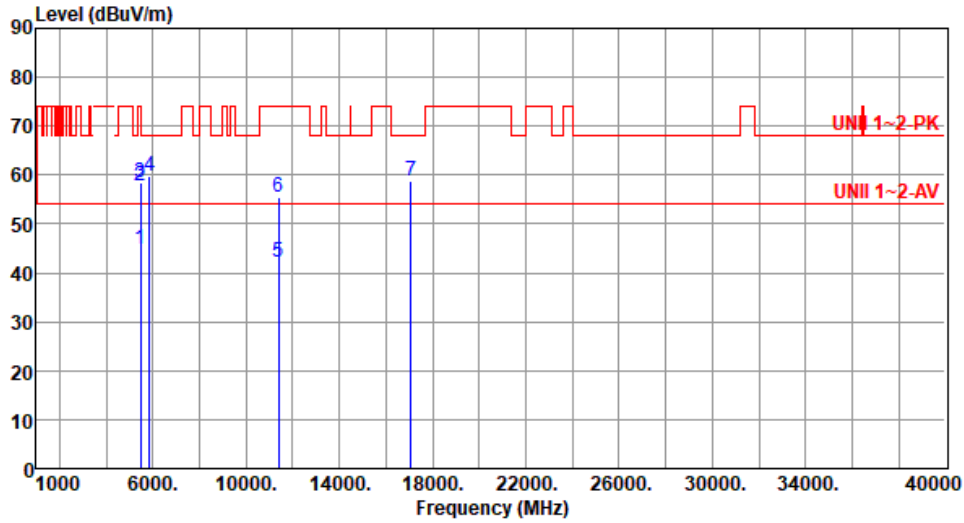
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE80	Test Freq. (MHz)	5690
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.79	54.00	-9.21	40.12	4.67	Average	120	195
2	5460.00	57.91	74.00	-16.09	53.24	4.67	Peak	120	195
3	5470.00	58.35	68.20	-9.85	53.65	4.70	Peak	120	195
4	5850.00	59.78	68.20	-8.42	54.13	5.65	Peak	120	195
5	11380.00	42.25	54.00	-11.75	28.16	14.09	Average	100	60
6	11380.00	55.37	74.00	-18.63	41.28	14.09	Peak	100	60
7	17070.00	58.92	68.20	-9.28	41.55	17.37	Peak	100	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

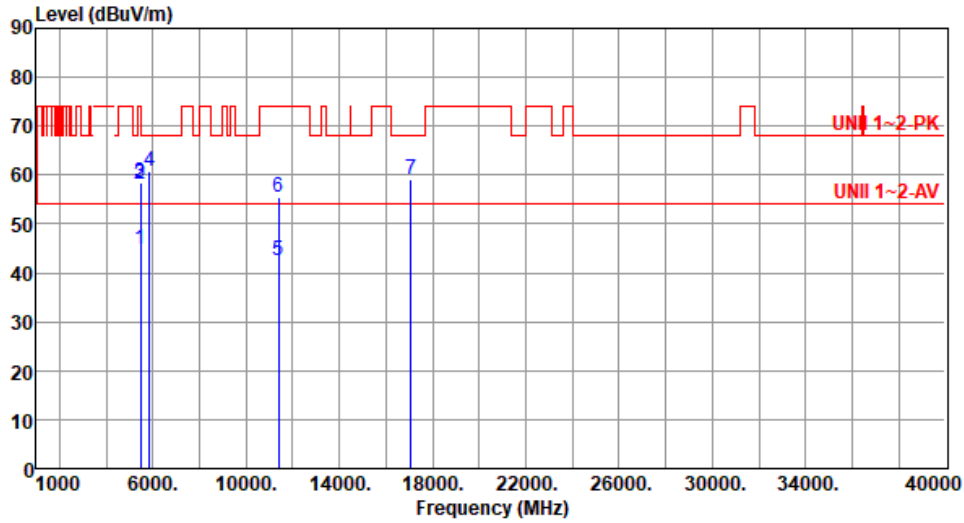
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE80	Test Freq. (MHz)	5690
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):23      Humidity(%):67



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5460.00	44.93	54.00	-9.07	40.26	4.67	Average	106	262
2	5460.00	58.16	74.00	-15.84	53.49	4.67	Peak	106	262
3	5470.00	58.59	68.20	-9.61	53.89	4.70	Peak	106	262
4	5850.00	60.88	68.20	-7.32	55.23	5.65	Peak	106	262
5	11380.00	42.44	54.00	-11.56	28.35	14.09	Average	100	90
6	11380.00	55.47	74.00	-18.53	41.38	14.09	Peak	100	90
7	17070.00	59.14	68.20	-9.06	41.77	17.37	Peak	100	50

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

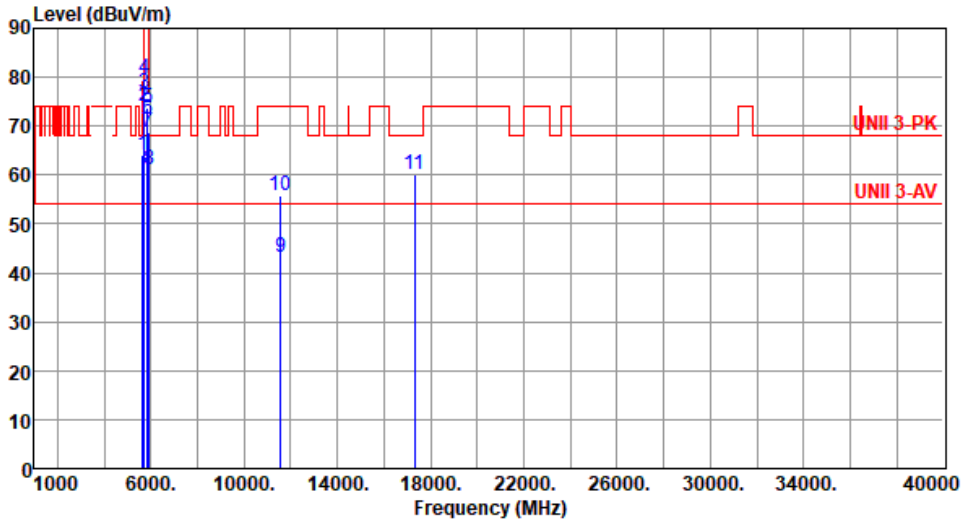
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE80	Test Freq. (MHz)	5775
Polarization	Horizontal		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	64.03	68.20	-4.17	59.22	4.81	Peak	122	196
2	5700.00	74.09	105.20	-31.11	69.07	5.02	Peak	122	196
3	5720.00	76.69	110.80	-34.11	71.55	5.14	Peak	122	196
4	5725.00	79.62	122.20	-42.58	74.45	5.17	Peak	122	196
5	5850.00	73.73	122.20	-48.47	68.08	5.65	Peak	122	196
6	5855.00	71.56	110.80	-39.24	65.91	5.65	Peak	122	196
7	5875.00	68.85	105.20	-36.35	63.19	5.66	Peak	122	196
8	5925.00	61.07	68.20	-7.13	55.46	5.61	Peak	122	196
9	11550.00	43.32	54.00	-10.68	29.02	14.30	Average	100	40
10	11550.00	55.72	74.00	-18.28	41.42	14.30	Peak	100	40
11	17325.00	60.02	68.20	-8.18	42.31	17.71	Peak	100	90

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

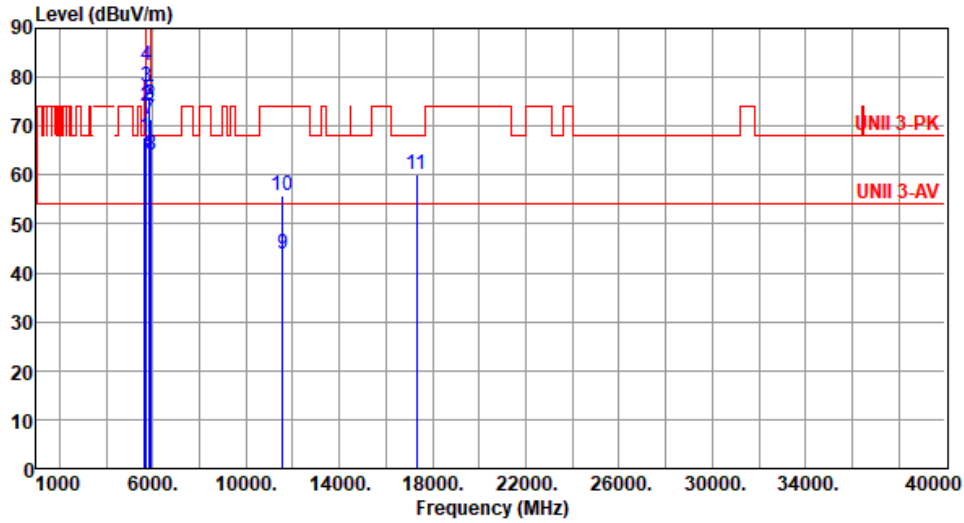
\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Modulation	ax HE80	Test Freq. (MHz)	5775
Polarization	Vertical		

Test By : Roger Lu      Temperature(°C):24      Humidity(%):65



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	5650.00	67.86	68.20	-0.34	63.05	4.81	Peak	128	261
2	5700.00	74.20	105.20	-31.00	69.18	5.02	Peak	128	261
3	5720.00	78.19	110.80	-32.61	73.05	5.14	Peak	128	261
4	5725.00	82.44	122.20	-39.76	77.27	5.17	Peak	128	261
5	5850.00	75.24	122.20	-46.96	69.59	5.65	Peak	128	261
6	5855.00	74.49	110.80	-36.31	68.84	5.65	Peak	128	261
7	5875.00	71.50	105.20	-33.70	65.84	5.66	Peak	128	261
8	5925.00	64.18	68.20	-4.02	58.57	5.61	Peak	128	261
9	11550.00	43.75	54.00	-10.25	29.45	14.30	Average	100	191
10	11550.00	55.89	74.00	-18.11	41.59	14.30	Peak	100	191
11	17325.00	60.27	68.20	-7.93	42.56	17.71	Peak	100	140

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-1.80	-2.31	-2.18	-2.39
T20°CVmin	-2.01	-1.99	-2.52	-2.04
T50°CVnom	-11.51	-11.17	-10.58	-10.96
T40°CVnom	-6.84	-6.79	-6.42	-5.98
T30°CVnom	-4.75	-4.98	-4.87	-5.55
T20°CVnom	-2.26	-1.78	-2.41	-2.04
T10°CVnom	-1.66	-1.00	-1.00	-0.80
T0°CVnom	0.10	-0.20	-0.84	0.10
T-10°CVnom	-9.25	-9.48	-9.38	-9.35
T-20°CVnom	-0.46	-0.55	-0.42	-0.78
T-30°CVnom	2.23	1.64	1.64	1.86
Vnom [V]: 120	Vmax [V]: 138		Vmin [V]: 102	
Tnom [°C]: 20	Tmax [°C]: 50		Tmin [°C]: -30	

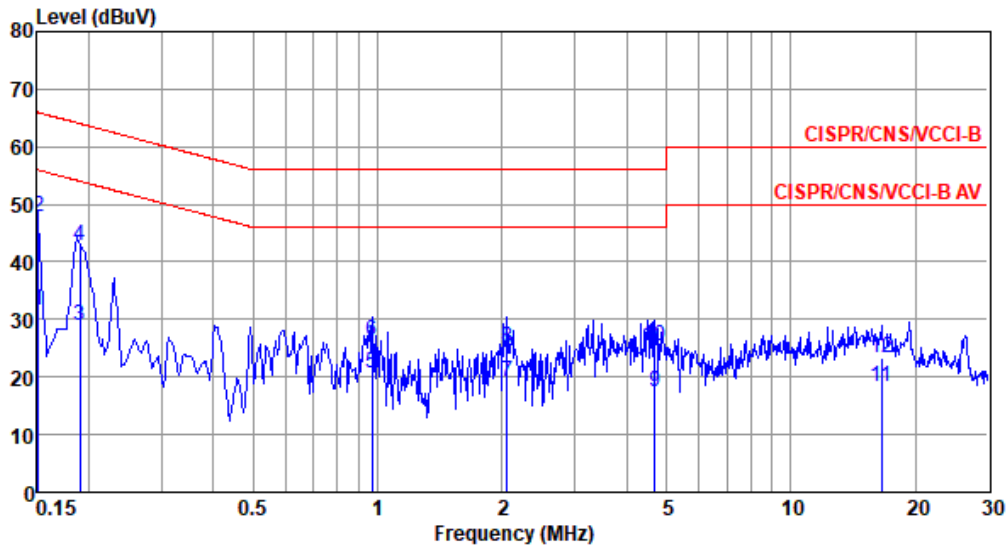
Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	-5.35	-5.21	-5.38	-5.44
T20°CVmin	-4.81	-5.17	-5.04	-5.04
T50CVnom	-9.60	-10.11	-10.03	-9.51
T40°CVnom	-7.67	-8.17	-8.48	-7.78
T30°CVnom	-6.87	-7.03	-6.59	-6.64
T20°CVnom	-4.72	-4.67	-4.30	-4.60
T10°CVnom	-3.08	-2.62	-2.75	-2.16
T0°CVnom	-1.73	-1.46	-0.91	-1.16
T-10°CVnom	-0.01	-0.22	0.44	-0.18
T-20°CVnom	1.10	0.79	0.65	0.96
T-30°CVnom	2.55	2.45	2.27	2.86
Vnom [V]: 120	Vmax [V]: 138		Vmin [V]: 102	
Tnom [°C]: 20	Tmax [°C]: 50		Tmin [°C]: -30	





Modulation Mode	11a	Test Freq. (MHz)	5200
Power Phase	Line		

Test by : Joe Liao      Temperature: 20°C      Humidity: 60%



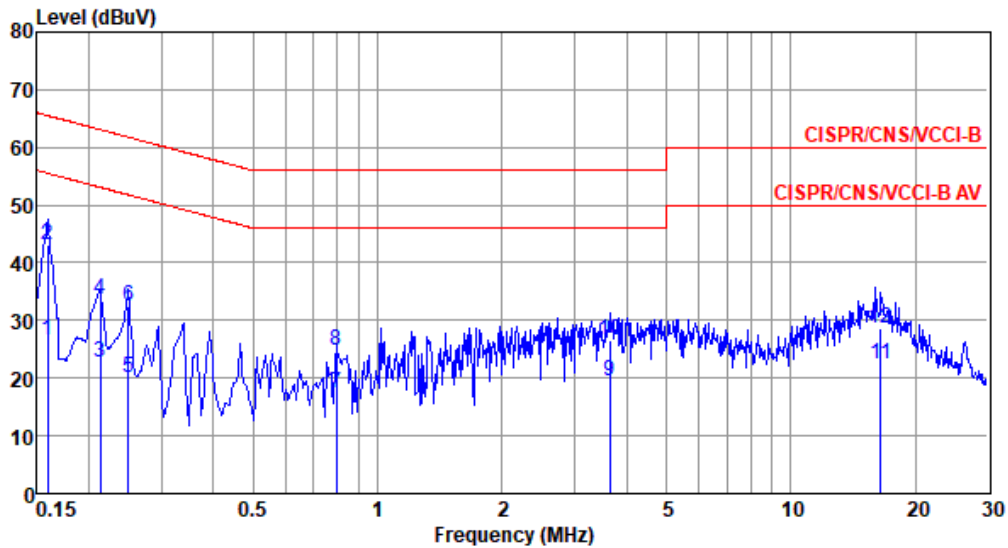
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.151	31.62	55.96	-24.34	21.74	9.60	0.08	0.20	Average
2*	0.151	47.68	65.96	-18.28	37.80	9.60	0.08	0.20	QP
3	0.190	29.02	54.02	-25.00	19.11	9.61	0.08	0.22	Average
4	0.190	42.87	64.02	-21.15	32.96	9.61	0.08	0.22	QP
5	0.968	20.58	46.00	-25.42	10.44	9.61	0.16	0.37	Average
6	0.968	26.17	56.00	-29.83	16.03	9.61	0.16	0.37	QP
7	2.055	19.18	46.00	-26.82	8.97	9.62	0.20	0.39	Average
8	2.055	24.95	56.00	-31.05	14.74	9.62	0.20	0.39	QP
9	4.696	17.50	46.00	-28.50	7.20	9.63	0.25	0.42	Average
10	4.696	25.41	56.00	-30.59	15.11	9.63	0.25	0.42	QP
11	16.573	18.33	50.00	-31.67	7.56	9.61	0.59	0.57	Average
12	16.573	23.20	60.00	-36.80	12.43	9.61	0.59	0.57	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).  
 Note 2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).



Modulation Mod	11a	Test Freq. (MHz)	5200
Power Phase	Neutral		

Test by : Joe Liao      Temperature: 20°C      Humidity: 60%



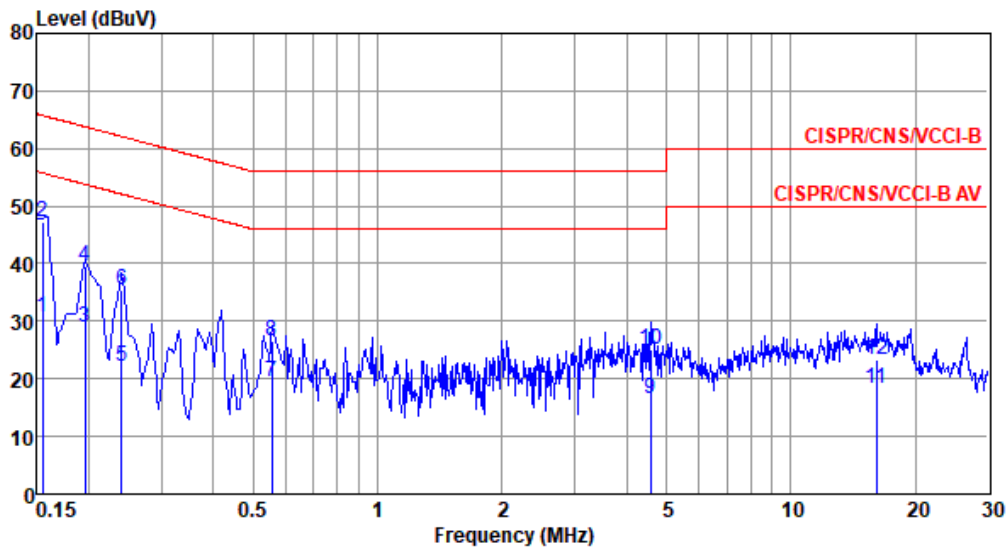
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	26.45	55.52	-29.07	16.62	9.59	0.08	0.16	Average
2*	0.159	43.07	65.52	-22.45	33.24	9.59	0.08	0.16	QP
3	0.213	22.71	53.10	-30.39	12.86	9.59	0.08	0.18	Average
4	0.213	33.69	63.10	-29.41	23.84	9.59	0.08	0.18	QP
5	0.249	20.11	51.78	-31.67	10.26	9.59	0.08	0.18	Average
6	0.249	32.35	61.78	-29.43	22.50	9.59	0.08	0.18	QP
7	0.796	17.50	46.00	-28.50	7.51	9.59	0.14	0.26	Average
8	0.796	24.68	56.00	-31.32	14.69	9.59	0.14	0.26	QP
9	3.642	19.42	46.00	-26.58	9.27	9.61	0.21	0.33	Average
10	3.642	26.48	56.00	-29.52	16.33	9.61	0.21	0.33	QP
11	16.486	22.29	50.00	-27.71	11.57	9.67	0.59	0.46	Average
12	16.486	28.64	60.00	-31.36	17.92	9.67	0.59	0.46	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).  
 Note 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).



Modulation Mod	ax HE40	Test Freq. (MHz)	5755
Power Phase	Line		

Test by : Joe Liao      Temperature: 20°C      Humidity: 60%



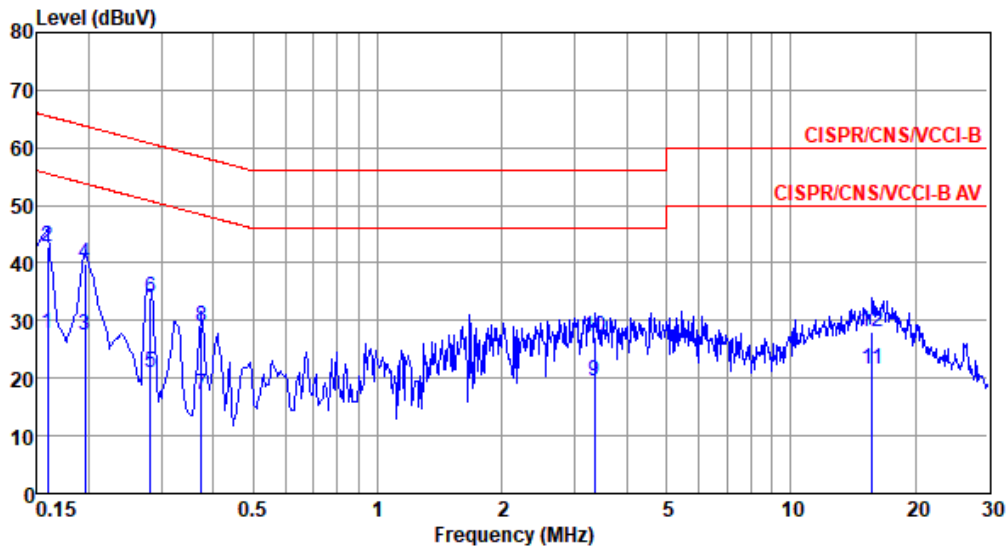
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.155	30.66	55.74	-25.08	20.78	9.60	0.08	0.20	Average
2*	0.155	47.23	65.74	-18.51	37.35	9.60	0.08	0.20	QP
3	0.195	28.89	53.80	-24.91	18.98	9.61	0.08	0.22	Average
4	0.195	39.46	63.80	-24.34	29.55	9.61	0.08	0.22	QP
5	0.240	22.20	52.08	-29.88	12.25	9.61	0.08	0.26	Average
6	0.240	35.48	62.08	-26.60	25.53	9.61	0.08	0.26	QP
7	0.555	19.59	46.00	-26.41	9.52	9.60	0.11	0.36	Average
8	0.555	26.65	56.00	-29.35	16.58	9.60	0.11	0.36	QP
9	4.574	16.50	46.00	-29.50	6.21	9.63	0.24	0.42	Average
10	4.574	25.16	56.00	-30.84	14.87	9.63	0.24	0.42	QP
11	16.140	18.39	50.00	-31.61	7.64	9.61	0.59	0.55	Average
12	16.140	23.31	60.00	-36.69	12.56	9.61	0.59	0.55	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).  
 Note 2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).



Modulation Mod	ax HE40	Test Freq. (MHz)	5755
Power Phase	Neutral		

Test by : Joe Liao      Temperature: 20°C      Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.159	27.77	55.52	-27.75	17.94	9.59	0.08	0.16	Average
2*	0.159	42.81	65.52	-22.71	32.98	9.59	0.08	0.16	QP
3	0.196	27.33	53.80	-26.47	17.48	9.59	0.08	0.18	Average
4	0.196	39.81	63.80	-23.99	29.96	9.59	0.08	0.18	QP
5	0.282	21.08	50.76	-29.68	11.23	9.59	0.08	0.18	Average
6	0.282	33.89	60.76	-26.87	24.04	9.59	0.08	0.18	QP
7	0.375	17.01	48.39	-31.38	7.16	9.58	0.08	0.19	Average
8	0.375	28.84	58.39	-29.55	18.99	9.58	0.08	0.19	QP
9	3.346	19.52	46.00	-26.48	9.38	9.61	0.21	0.32	Average
10	3.346	27.08	56.00	-28.92	16.94	9.61	0.21	0.32	QP
11	15.718	21.57	50.00	-28.43	10.86	9.67	0.57	0.47	Average
12	15.718	27.97	60.00	-32.03	17.26	9.67	0.57	0.47	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB).  
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).